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1939

Gould's

41st YEAR

SEED ANNUAL

R. L. GOULD & COMPANY

Seedsmen Since 1898

496-502 JACKSON ST. PHONE GARFIELD 5377 **SAINT PAUL, MINN.**

Beautiful Minnesota State Capitol — Lawn seeded with Gould's Reliable Lawn Seed.

Prices Quoted Are Not Postpaid

LAWN GRASS SEED

Include Postage With Mail Orders

Gould's Reliable Lawn Grass Seed

A fine lawn is the most important feature of the home grounds. A beautiful lawn not only adds to the value of the home but imparts an air of dignity and refinement. Nothing sets off the house so well as a properly-made, well-kept lawn.

To maintain a good lawn, the regular feeding of fertilizer is necessary in spite of all the seed you may apply. Otherwise the lawn will gradually starve for want of plantfood and take on a lifeless appearance; easily subject to winter-killing. Good seed and regular feeding will do wonders in keeping the lawn fresh and green. See special fertilizer page for lawn fertilizers.

Gould's Reliable Grass Mixture is the result of our many years of experience in the mixing of different grass seeds that will produce a quick, thick permanent sod of deep-rooting grasses to withstand our Northern winters. Is composed of clean, heavy seed of the highest purity and vitality. For new lawn, sow at the rate of 1 lb. to 200 square feet.

1 lb.....$0.45	5 lbs.....$1.75	50 lbs....$15.00
2 lbs..... .85	10 lbs..... 3.40	100 lbs.... 29.00
3 lbs..... 1.20	25 lbs..... 8.00	

Como Park Lawn Grass Seed

This is a mixture of re-cleaned seed for those who want a good low-priced lawn seed. Como Park is not as high grade as Gould's Reliable Lawn Seed but is a good mixture at the price. It will grow quickly and form a permanent sod. Sow at the rate of 1 lb. to 150 square feet, for new lawn. 1 lb. 25c; 5 lbs. $1.00; 10 lbs. $2.00; 25 lbs. $4.75; 50 lbs. $9.25; 100 lbs. $18.25.

Home Lawn Grass Seed

A mixture of grasses similar to Como Park. Seed at the rate of 1 lb. to 150 square feet. for new lawn. 1 lb. 25c; 5 lbs. $1.00; 10 lbs. $2.00; 25 lbs. $4.75; 50 lbs. $9.25; 100 lbs. $18.25.

Special Lake Shore Mixture

This mixture is especially desirable for lake shores and around summer cottages where it is not always possible to give the best of care in establishing a lawn. Seed at the rate of 1 lb. to 200 square feet, of new lawn.

1 lb.....$0.30	5 lbs.....$1.40	25 lbs....$6.50
2 lbs..... .60	10 lbs..... 2.75	100 lbs....24.00

Gould's Shady Lawn Grass

For Seeding Under Trees and Shaded Areas.

Where trees or houses shade the lawn the greater part of the day and keep out the sun, it is a problem to get grass to grow. Growing grass in shaded places seems at times almost hopeless, but this is often due to planting the wrong kind of seed. Ordinary grass seed mixtures will not make a good growth where there is little or no direct sunlight. In Gould's Shady Lawn Grass we have combined a special mixture of those varieties of grass seeds that do well in the shade. One must keep in mind that lawns in shaded places require more fertilizer than do lawns in sunny places, especially where there are many trees and the ground becomes impoverished by a network of surface roots. Sow Gould's Shady Lawn Grass Seed at the rate of 1 pound to 200 square feet to produce a thick heavy sod.

1 lb.....$0.55	5 lbs.....$2.25	25 lbs.....$10.00
2 lbs..... 1.00	10 lbs..... 4.25	100 lbs..... 38.00

Seaside Bent

Seaside is a consistant surface creeping variety. It is of a rather bright green color, and does not grow very tall because of its trailing habit of growth. It spreads rapidly and forms a mat-like sod quickly. Sow at the rate of 3 lbs. to 1000 square feet. 1 lb. $1.35; 5 lbs. $6.25; 10 lbs. $12.00; 25 lbs. $27.50.

Astoria Bent

The Astoria Bent produces underground creepers, usually by Rhizomes, several inches deep, and has considerable more upright growth than the Seaside. The grass is somewhat longer and not as wide and of a darker green color. Is better suited to well drained soils. Seed at the rate of 3 lbs. to 1000 square feet, for new lawn. 1 lb. $1.50; 5 lbs. $7.00; 10 lbs. $13.25; 25 lbs. $31.25; Postage extra.

CREEPING BENT GRASS PLUGS

One of few hybrid strains of Bent Grass that is perfectly hardy here in the Northwest. Needs only ordinary care. These Bent sod plugs should be planted one foot apart. In about 3 to 4 months they will spread and make a solid, deep green turf. One carton plants 100 square feet.

1 carton $1.15; 5 cartons $5.00; 10 cartons $9.00.

Minnesota State Fair, St. Paul. Beautiful grounds seeded with Gould's Lawn Seed Mixtures.

Gould's Terrace Lawn Seed

For embankments, terraces and steep hillsides.

A variety of grasses that grow long, strong, spreading roots so as to withstand heavy rains from washing out the sod or soil. The deep-rooted grasses not only prevent heavy rains from washing it out, but also resist drought to a marked degree. Seed should be sown heavier than recommended for regular mixtures.

1 lb. $0.55	**5 lbs.....$2.25**	**25 lbs.....$10.00**
2 lbs..... 1.00	**10 lbs..... 4.25**	**100 lbs..... 38.00**
3 lbs..... 1.50		

LENONET. For covering newly seeded slopes. A rot-resisting, open-mesh fabric. **Sq. yd., 10c.**

Nutria Peat Moss **For lawns and gardens.**

Nutria Peat is a high lime granulated peat, clean, odorless and pleasant to work with. It is an excellent soil builder. It will lighten clay or heavy soils and build up sandy or light soils. It conditions and changes otherwise poor soil into one of rich, mellow texture. Makes an excellent top dressing for new or old lawns. Peat is also valuable for use in the garden. **Large bag (about 2 bushels) 90c; 2 bags $1.50; 3 bags $2.00; 1 cubic yard load $3.50; 2 cubic yard load (equal to 20 bags) $5.00, delivered within the city limits of St. Paul.**

Black Earth

Genuine, University tested, high mineral earth. **Load, more than two yards $4.00; delivered in St. Paul.**

SOD We do sodding or can supply you with sod. Let us give you an estimate.

White Dutch Clover

This is the best small leaved clover for lawns. Clover adds humus and nitrogen to the soil. Does well on all soils. Especially valuable in lawns that cannot be watered regularly. **¼ lb. 25c; ½ lb. 40c; 1 lb. 75c; 3 lbs. 2.15; 5 lbs. $3.50; 10 lbs. $6.75; 25 lbs. $16.50; 100 lbs. $62.00. Postage extra on mail orders.**

Kentucky Blue Grass

This hardy perennial grass is one of the very best for our Northern climate and the base for most good lawn seed mixtures. Forms a dense sod but is very slow to germinate. It is advisable to mix red top or rye grass with Blue Grass when sowing, to act as a nurse crop. In established lawns Blue Grass can be sown alone. **1 lb. 35c; 2 lbs. 65c; 3 lbs. 95c; 5 lbs. $1.50; 10 lbs. $2.90; 25 lbs. $6.75; 100 lbs. $24.00.**

Poa Trivialis

A fine bladed perennial grass of the Blue Grass family that thrives in the shade. **1 lb. 90c; 2 lbs. $1.85; 5 lbs. $4.25; 10 lbs. $8.30; 25 lbs. $20.00.**

Red Top

Makes an excellent sod but is not as permanent as Blue Grass when clipped close. Germinates quickly and for that reason makes an excellent nurse crop to sow with Blue Grass. **1 lb. 35c; 2 lbs. 65c; 3 lbs. 95c; 5 lbs. $1.50; 10 lbs. $2.90; 25 lbs. $6.75; 100 lbs. $24.00.**

Rye Grass

A quick growing Perennial grass that makes a green lawn in a short time. Does not live as long as Blue Grass. Used mostly as a nurse crop. **1 lb. 25c; 5 lbs. $1.00; 10 lbs. $1.90; 25 lbs. $4.50; 100 lbs. $17.00.**

Chewings Fescue

Produces a mass of fine blades, spreading to a solid, compact turf. Does well in poor or sandy soils and in the shade. Very drought-resistant. **1 lb. $1.35; 5 lbs. $6.25; 10 lbs. $12.00.**

Lexington Ball Park, St. Paul—Home of the American Association's 1938 Pennant Winning Saints. Grounds seeded with Gould's Lawn Seed Mixture.

Our large retail store. Conveniently located near the center of St. Paul's downtown retail district.

Prices All prices quoted are subject to change without notice. Prices on field and grass seed fluctuate so during the season that no values are printed in this catalog. During the season, we issue special price lists which will be mailed to anyone on request, giving latest market quotations on the above mentioned seeds. Cackler with latest poultry feed prices is issued at intervals. A special fall list is also issued about the middle of September, giving prices on imported tulip and other Dutch and French bulbs, for autumn planting.

Disclaimer As seeds, plants and bulbs are subject to climatic and other conditions over which we have no control, R. L. Gould & Company therefore give no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, plants or bulbs that they send out, and they will not be in any way responsible for the crop; and every order for articles named in this catalog will be executed on these conditions only. If the purchaser does not accept same on these terms, they are to be at once returned.

GOULD'S PLANTING CHART FOR THE SMALL VEGETABLE GARDEN

NOTE—*Denotes the quantity of seed that should raise sufficient plants to transplant into a row 100 feet long. The seed should be sown in hotbed, and later sown in a cold frame, or sow the seed in a well-prepared seedbed in the open when danger from frost has passed.

Variety	Seed required for 100 ft. row	Plant rows apart	Plants apart in rows	Time of planting in open ground	Matures in about
Asparagus, Seed	2 ozs.	1 to 2 ft.	3 to 5 in.	Early spring	3 to 4 years
Asparagus Plants	60 plants	30 to 36 in.	18 in.	Early spring	1 to 3 years
Beans, Bush	1 lb.	15 to 24 in.	2 to 3 in.	April to July	45 to 70 days
Beans, Pole	½ lb.	3 to 4 ft.	3 to 4 ft.	May and June	65 to 90 days
Beets	2 ozs.	12 to 16 in.	3 to 4 in.	April to Aug.	55 to 70 days
*Brussels Sprouts	1 pkt.	24 to 30 in.	16 to 24 in.	May and June	90 to 110 days
*Cabbage, Early	1 pkt.	24 to 30 in.	12 to 18 in.	March and Apr.	65 to 80 days
*Cabbage, Late	1 pkt.	24 to 36 in.	16 to 24 in.	May and June	90 to 110 days
Carrot	½ oz.	12 to 15 in.	3 to 4 in.	April to June	70 to 100 days
*Cauliflower	1 pkt.	24 to 30 in.	24 to 30 in.	April to June	54 to 70 days
*Celeriac	1 pkt.	14 to 24 in.	2½ to 3 in.	May and June	120 days
*Celery	1 pkt.	6 in.	4 to 8 in.	May and June	115 to 130 days
Corn, Sweet	¼ lb.	30 to 36 in.	15 to 24 in.	May to July	60 to 100 days
Cucumber	1 pkt.	4 to 6 ft.	4 to 6 ft.	April to July	60 to 80 days
*Eggplant	1 pkt.	24 to 36 in.	24 to 30 in.	April and May	85 to 90 days
Endive	½ oz.	18 in.	8 to 12 in.	April to July	90 days
*Kale, or Borecole	1 pkt.	18 to 24 in.	18 to 24 in.	August	55 to 60 days
*Kohl Rabi	1 pkt.	15 to 24 in.	6 to 8 in.	March to May	60 to 80 days
Leek	½ oz.	12 to 16 in.	4 to 8 in.	March to May	120 to 180 days
Lettuce	1 pkt.	10 to 15 in.	6 in.	March to Sept.	45 to 85 days
Melon, Musk	1 pkt.	6 to 8 ft.	Hills, 6 ft.	April to June	80 to 115 days
Melon, Water	1 oz.	8 ft.	Hills, 6 ft.	May and June	70 to 100 days
Mustard	1 pkt.	12 in.	3 in.	March to May	60 to 90 days
New Zealand Spinach	1 oz.	24 to 36 in.	12 to 18 in.	Early spring	70 days
Okra, or Gumbo	2 ozs.	3 to 4 ft.	24 to 30 in.	May and June	50 to 60 days
Onion Seed	½ oz.	12 to 18 in.	1½ in.	April and May	102 to 115 days
Onion Sets	2 qts.	12 in.	1½ to 2 in.	Feb. to May	30 to 60 days
Parsley	1 pkt.	12 to 14 in.	6 in.	Early spring	90 to 120 days
Parsnip	½ oz.	18 in.	3 in.	April and May	85 to 95 days
Peas	1 lb.	15 to 18 in.	2 in.	March to June	50 to 80 days
*Pepper	1 pkt.	24 to 36 in.	15 in.	May and June	55 to 80 days
Potato, Irish	½ peck	24 to 36 in.	15 in.	March to June	80 to 140 days
Pumpkin	1 pkt.	8 to 10 ft.	Hills, 8 ft.	May to July	100 to 120 days
Radish	1 oz.	6 to 12 in.	2 in.	March to Sept.	20 to 70 days
Rhubarb Plants	33 plants	3 to 5 ft.	3 ft.	Early spring	1 to 3 years
Rutabaga	1 pkt.	18 to 24 in.	6 to 8 in.	May and June	85 to 95 days
Salsify	1 oz.	18 to 24 in.	4 in.	Early spring	40 to 50 days
Spinach	1 oz.	12 to 18 in.	4 in.	Early spring	30 to 60 days
Squash, Bush	1 pkt.	3 to 4 ft.	Hills, 3 to 4 ft.	April to June	50 to 65 days
Squash, Late	1 pkt.	7 ft.	Hills, 7 ft.	April to June	55 to 110 days
Swiss Chard	1 oz.	16 in.	12 in.	April	60 days
*Tomato	1 pkt.	3 to 4 ft.	18 in.	May and June	65 to 90 days
Turnip	1 pkt.	18 in.	3 in.	April to July	45 to 70 days
Witloof Chicory, or French Endive	½ oz.	12 to 15 in.	3 to 4 in.	April and May	Fall and Winter

ASPARAGUS SEED

CULTURE. To start an asparagus bed from seed, sow 1 oz. to 50 feet of row early in the spring and transplant roots to permanent bed the following spring.

Mary Washington★

The best of the rust-resistant varieties introduced by the U. S. Department of Agriculture. A very vigorous grower, producing large succulent stalks of excellent quality. State Agricultural Colleges throughout the country recommend the Mary Washington as the best variety for the home or market gardener. Shoots color to a dark green with purple shades at tip. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c.**

Palmetto★

Plants are vigorous in growth, producing large, thick, dark green shoots with a distinctly pointed tip. **Pkt. 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c.**

Asparagus Roots Listed on Page 43.

Market Gardeners and Florists

We do not issue a separate Market Gardener's catalog and price list, but you will note that we list larger amounts than the small gardener buys, and these quantity prices are intended for the market gardener. Special flower seed price list for florists will be sent on request.

PARCEL POST RATES FROM ST. PAUL

All seeds, plants, bulbs and roots take the pound rate on packages weighing over 8 ounces. On 8 ounces or less, the rate is 1c for each 2 ounces, regardless of distance. All goods except seeds, bulbs, roots and plants take pound rates on packages weighing over 8 oz. On 8 oz. or less, rate is 1½ cents for each 2 oz. for any distance.

	Miles from St. Paul					
	50	150	300	600	1,000	1,400
Lbs.	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
1	$0.08	$0.08	$0.09	$0.10	$0.11	$0.12
2	.10	.10	.11	.14	.17	.19
3	.11	.11	.13	.17	.22	.26
4	.12	.12	.15	.21	.27	.33
5	.13	.13	.17	.24	.33	.40
6	.14	.14	.19	.28	.38	.47
7	.15	.15	.21	.31	.43	.54
8	.16	.16	.23	.35	.49	.61
9	.17	.17	.25	.38	.54	.68
10	.18	.18	.27	.42	.59	.75
11	.19	.19	.29	.45	.64	.82
12	.21	.21	.31	.49	.70	.89
13	.22	.22	.33	.52	.75	.96
14	.23	.23	.35	.56	.80	1.03
15	.24	.24	.37	.59	.86	1.10
16	.25	.25	.39	.63	.91	1.17
17	.26	.26	.41	.66	.96	1.24
18	.27	.27	.43	.70	1.02	1.31
19	.28	.28	.45	.73	1.07	1.38
20	.29	.29	.47	.77	1.12	1.45

For each additional pound, add 1.1c in the first and second zones; 2c in the third; 3.5c in the fourth; 5.3c in the fifth; 7c in the sixth. Weight limit, 70 lbs., any zone.

BEANS

CULTURE. To obtain a continuous supply of beans throughout the season, make plantings every two weeks from about May 10th to July 1st. Beans should be planted in rows 15 to 18 inches apart, thinning in the row to 3 or 4 inches apart. Do not cultivate or pick beans when plants are moist from dew or rain as this causes the spread of rust or Anthracnose, thereby curtailing the production. Plant about 1 to 2 inches deep depending upon the condition of the soil.

DWARF WAX VARIETIES

Currie's Rust Proof Black Wax★

45 TO 50 DAYS. Very early and a good yielder. The pods are large, flat and straight, free from rust and of excellent quality. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 50c; 10 lbs., $2.00; 100 lbs., $17.00.**

Unrivalled, or Everbearing Wax★

53 TO 55 DAYS. A hardy and prolific mid-season variety. The vines are small and compact, producing a heavy crop of handsome, pale yellow long semi-round pods of highest quality. **Pkt., 10c; ½ lb.. 20c; 1 lb., 35c; 2 lbs., 50c; 10 lbs., $1.75; 100 lbs., $15.00.**

Gould's Reliable Black Wax★

53 TO 55 DAYS. This is an early wax bean for the market. The pods are 6½ inches long, flat, straight and stringless. It is a good yielder and attractive. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 50c; 10 lbs., $2.00; 100 lbs., $17.00.**

Gould's Reliable Kidney Wax

52 TO 55 DAYS. An excellent early, round podded variety for the home garden and canning. It is very tender and absolutely stringless. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 60c; 10 lbs., $2.50; 100 lbs., $25.00.**

Improved Golden Wax 48 to 50 days

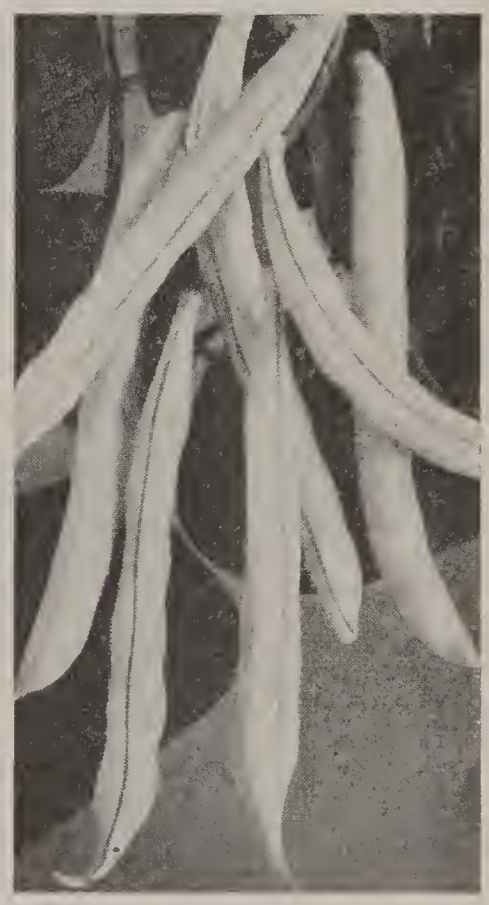
A well known standard variety. Bears an abundance of large flat pods slightly curved. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 50c; 10 lbs., $1.75; 100 lbs., $15.00.**

Pencil Pod Black Wax 52 to 55 days

One of the better round podded varieties; very early and prolific, stringless and of excellent quality. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 50c; 10 lbs., $2.00; 100 lbs., $17.00.**

Davis Kidney Wax 52 to 55 days

Pure white, of kidney shape, producing a large, flat, straight pod of fine appearance. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 50c; 10 lbs., $1.75; 100 lbs., $15.00.**



Gould's Reliable Kidney Wax Beans

DWARF GREEN PODDED VARIETIES

Bountiful★ 48 days

One of the earliest of the green podded beans. The pods are large, flat and slightly curved, of a light green color and stringless. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 50c; 10 lbs., $1.75; 100 lbs., $15.00.**

Black Valentine★ 49 days

Pods are long, nearly round, straight and of good quality. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 50c; 10 lbs., $1.75; 100 lbs., $15.00.**

Full Measure★ 52 days

A very fine round stringless green podded bean. The pods are long and straight, showing depressions around the beans which are round and tender. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 50c; 10 lbs., $1.75; 100 lbs., $15.00.**

Giant Stringless Green Pod★ 55 days

An excellent variety to follow Stringless Green Pod, being later and larger. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 50c; 10 lbs., $1.75; 100 lbs., $15.00.**

Longfellow★ 54 days

An early, round, long, slender green pod, very tender and brittle. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 50c; 10 lbs., $1.75; 100 lbs., $15.00.**

Stringless Black Valentine 49 days

Similar to Black Valentine except that the pods are slightly more oval in shape and are entirely free from strings. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 50c; 10 lbs., $1.75; 100 lbs., $15.00.**

Stringless Green Pod 53 days

The finest green bean. Has green pods, which are perfectly round, straight, tender, brittle and entirely stringless. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 50c; 10 lbs., $1.75; 100 lbs., $15.00.**

Refugee or 1000 to 1★ 70 days

A very productive, hardy, late variety. Pods are long, semi-round and slender, very much in demand for late market. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 50c; 10 lbs., $1.75; 100 lbs., $15.00.**

Stringless Green Pod Beans
See Page 3

POLE BEANS

CULTURE. Beans being very tender and delicate when coming out of the ground and also very quick in making their appearance after being planted, care should be taken not to plant while there is still danger of frost, May 10th to 25th is, as a rule, the best time for bean planting.

Kentucky Wonder or Old Homestead — 65 days

This climbing variety is very vigorous and productive and bears its pods in large clusters. The pods are green and almost round, often measuring 8 to 10 inches long. They are stringless, very tender and bear all summer. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 50c; 10 lbs., $2.00.**

Kentucky Wonder Wax — 68 days

Very similar to the green-podded Kentucky Wonder, but the pods are a little broader and light yellow. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 50c; 10 lbs., $2.00.**

Lazy Wife — 74 days

One of the best varieties for snaps of the large late green-podded pole beans. The pods grow in large clusters, are 5 to 7 inches long, broad, thick, fleshy and stringless. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 50c; 10 lbs., $2.00.**

Scarlet Runner — 90 days

A bean that is edible as well as ornamental. It is a fine climber, quick growing, and has large beautiful leaves and bright scarlet blossoms. **Pkt., 10c; ½ lb., 25c; 1 lb., 45c; 2 lbs., 75c; 10 lbs., $3.00.**

LIMA BEANS

CULTURE. Limas should be planted a little later than the other running beans, in the most favorable location possible, as they are very late in maturing. Always plant with the eye down.

Burpee's Improved Bush Lima

Burpee's Improved Bush Lima★

75 DAYS. This is by far the most popular of the Bush Lima type. The bushes grow from 18 to 24 inches high of stout, erect growth, forming bushes of two to three feet in diameter. The pods are frequently borne in clusters of 5 to 8, each containing 4 or 5 large, white beans. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 50c; 10 lbs., $2.00.**

Fordhook Bush★ — 75 days

A most excellent variety that is exceedingly popular with market gardeners. The pods are about 5 inches long, each having 4 or 5 large, oval-shaped, white beans of fine quality. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 50c; 10 lbs., $2.50.**

Henderson's Bush — 65 days

A vigorous hardy, very early Bush Lima. Beans are small, white and of very good quality. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 50c; 10 lbs., $2.00.**

King of the Garden Pole Lima★ — 88 days

The vines are very vigorous and prolific. Pods are of large size filled with 4 or 5 large white beans of very fine quality. The beans are easily shelled and of handsome appearance. A popular market garden variety. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 50c; 10 lbs., $2.00.**

Siebert's Early Pole Lima★ — 81 days

Early and very productive. Pods are thin and contain four large white beans of finest quality. **Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 60c; 10 lbs., $2.50.**

FIELD BEANS

CULTURE. Beans thrive on most all soils, but better results are gained by the liberal use of fertilizer or planting in light, rich, well-drained loam. Beans are extremely sensitive to frost and moisture.

Brown or Swedish — 95 days

This is a fine field bean of a light brownish color and medium size. Very fine for baking. **½ lb., 15c; 1 lb., 25c; 10 lbs., $1.60; 50 lbs., $7.00.**

Choice Navy — 90 days

This is a much improved strain of the old popular white baking bean. It is smaller in size and more round, but is highly recommended on account of its heavy yield and disease-resistant quality. **½ lb., 10c; 1 lb., 20c; 10 lbs., $1.50; 50 lbs., $5.50.**

Great Northern Bean — 96 days

A large navy bean which is giving splendid results. The seed is large, flat, and slightly kidney shaped. It is a fine baker and is sometimes used as a small lima. **½ lb., 10c; 1 lb., 20c; 10 lbs., $1.50; 50 lbs., $5.50.**

Maturity Figures

After the name of most vegetable varieties you will find figures representing the approximate number of days required to mature the plants, from the time of planting the seed to the time the vegetables are ready to eat.

MANGEL-BEETS (*For Stock Feeding*)

CULTURE. Sow six pounds to the acre in rows three feet apart, and thin to nine inches in the row. Seed should not be sown until the ground is warm and the weather fully settled. Sow one inch deep. Mangels, when fed to cows, materially increase the milk.
MANGEL PRICE: 2 lbs. and up at 5-lb. rate.

Improved Mammoth Long Red Mangel

Giant Red Eckendorf — 110 days

The roots are red in color, smooth, long and cylinder shaped. **Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 50c; 5 lbs. $2.00.**

Giant Yellow Eckendorf

110 DAYS. Is very similar to the Red Eckendorf, excepting that the color is yellow. A fine variety. **Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 50c; 5 lbs. $2.00.**

Golden Tankard — 102 days

It combines all the fine points possible to condense into a mangel. **Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 50c; 5 lbs. $2.00.**

Imp. Mammoth Long Red

110 DAYS. Is a selection of the very best type of long red mangel. The roots are extra large, straight, uniform in size and of a deep red color. **Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 50c; 5 lbs. $2.00.**

Mammoth Golden Giant

110 DAYS. Grows very large, yet it has a very fine, even shape and smooth skin. Flesh is white, firm and sweet. **Pkt., 5c; oz., 10c; ¼ lb. 25c; 1 lb. 50c; 5 lbs. $2.00.**

Giant Feeding Half Sugar — 90 days

Is a very large growing sugar beet. A heavy yielder, an excellent feeder, but is not fit for sugar production. Yields nearly as heavy as do other mangels, but supplies for stock feeding a food of very much higher nutritive value. A most excellent feed for stock and poultry. **Pkt., 5c; oz., 10c; ¼ lb., 25c; 1 lb., 50c; 5 lbs., $2.00.**

Gould's Reliable Sludstrup Barres — 110 days

Has been recognized by the Danish Government as having the largest per cent of nutriment found in any sort. It is a reddish yellow color, is very hardy and grows well above ground, making it easy to pull. **Pkt. 5c; oz. 10c; ¼ lb., 25c; 1 lb., 50c; 5 lbs., $2.00.**

BEETS

CULTURE. Any well-prepared light garden soil will produce good beets, although a rich, sandy loam brings the best results. Sow the seed about 1 inch deep in rows 15 to 24 inches apart. When plants are about 6 inches high they should be thinned to 3 or 4 plants to the foot. Those taken out at this time make excellent greens.

Crosby's Egyptian★ — 60 days
A splendid extra early beet of slightly flattened globe shape. It is sweet and tender and a much desired table beet. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c.**

Detroit Dark Red★ — 68 days
This well known variety is very popular among market gardeners and canners as well as being an ideal variety for the home garden. The roots are very dark red in color, uniform in shape and of excellent quality. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c; 10 lbs. or more at 55c per lb.**

Detroit Dark Red Beet

Edmand's Blood Turnip — 66 days
A fine appearing turnip-shaped blood beet. Skin and flesh are of a deep red. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 65c.**

Early Wonder★ — 56 days
An extra early variety of special merit, being one of the first on the market. It is globular in shape, has a smooth skin, flesh is blood red and very tender. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c; 10 lbs. or more at 55c a lb.**

Gould's Early Bunching Beet★ — 55 to 58 days
The earliest beet on the market. It can stand the severe changes of the weather when sown in hotbeds better than any beet ever offered besides having a perfect shape and color for an early bunching beet. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 85c.**

Gould's Reliable Red Beet★ — 68 days
Is especially selected for its uniformity in size, shape and color, being a very dark red. We do not hesitate to recommend it either for market or home garden. It grows to a large size and is unsurpassed as to quality. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c.**

N. K. & Co's Sterling★ — 68 days
A very attractive variety of high quality. It is a heavy yielder, a good keeper and of very fine appearance. Is exceedingly sweet and tender for table use. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c.**

Swiss Chard or Spinach Beet — 50 to 56 days
This variety does not produce an edible root like the regular garden beet, but is highly esteemed for the broad, white leaf stalks and midribs which are cooked and served in the same manner as asparagus, making a most delicious vegetable. Cook leaves like spinach. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c.**

Giant Lucullus Swiss Chard — 55 to 60 days
The largest and the favorite of the Chard family. The leaves are very large and curly and make a very attractive dish when cooked up as greens. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c.**

SUGAR BEETS

Gould's Reliable Sugar Beet — 90 days
We consider this to be one of the very best sugar beets for sugar production. Is rich in sugar content. **Pkt. 5c; oz. 10c; ¼ lb. 35c; 1 lb. 75c.**

BROCCOLI

Italian Green Sprouting
This is entirely different from the old cauliflower type. It is easily grown and is cultivated like cabbage. Grows to a height of about two feet and bears an abundance of loose sprouting heads which are composed of clusters of buds. These heads should be cut before the buds begin to open. **Pkt., 10c; oz., 25c; ¼ lb., 80c; 1 lb., $2.50.**

BRUSSELS SPROUTS

Perfection — 90 days
Small heads or sprouts about one to two inches in diameter form on the stocks at each leaf joint. These may be boiled or creamed like cabbage or cauliflower. **Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., $2.50.**

CABBAGE

CULTURE FOR EARLY CABBAGE. Seed of the early varieties should be sown ¾ of an inch deep in a greenhouse, hotbed, or in boxes in the house, about 6 weeks before the plants are needed for planting out.
If, when the second leaves appear, the plants can be transplanted, spacing them 3 inches apart, better and more hardy plants will be obtained.
As soon as the soil can be worked in the spring the plants should be removed to the open field and set in rows 2 feet apart each way.
CULTURE FOR LATE CABBAGE. The seed may be sown in rows 1 foot apart or broadcast in the garden, about the middle of May, and the plants set in the field in June.

Early Jersey Wakefield — 62 to 65 days
The earliest cabbage grown. Heads are very solid and conical in shape with very few outside leaves, which permits closer planting. **Pkt. 5c; oz. 25c; ¼ lb. 75c; 1 lb. $2.25.**

Golden Acre Cabbage

Golden Acre★ — 63 to 65 days
An early round head variety of the Copenhagen Market type, which heads up a full week to ten days ahead of Copenhagen. This excellent variety heads very uniformly, producing a hard head which does not burst easily and which stands shipment well. This is one of the most valuable contributions to our list of cabbage varieties which has been made in recent years. **Pkt. 5c; oz. 25c; ¼ lb. 75c; 1 lb. $2.25.**

Resistant Detroit★ (New) — 65 to 68 days
A yellows resistant, round variety, very similar to Golden Acre. Season about the same as Golden Acre. **Pkt. 10c; oz. 60c; ¼ lb. $2.00; 1 lb. $5.50.**

Marion Market★ — 75 to 80 days
This is one of the disease resistant cabbages. It is a selection from Copenhagen Market, is very resistant to cabbage yellows; round head and of high quality. **Pkt. 5c; oz. 35c; ¼ lb. $1.00; 1 lb. $3.00.**

Copenhagen Market★ — 68 to 75 days
Heads grow upon a short stem, are solid and large, often weighing from 8 to 12 pounds. It is the largest of the early round-headed varieties. Its quality is extra fine and sweet. The leaves are light green, rather small, saucer-shaped and tightly folded. **Pkt. 5c; oz. 25c; ¼ lb. 75c; 1 lb. $2.25.**

Glory of Enkhuizen — 75 to 80 days
A large round short stem variety which matures about five days later than the Copenhagen Market. The heads are of nice size, weighing about 9 to 11 pounds each, globe-shaped and handsome dark green in color. Heads unusually firm and solid for an early variety. **Pkt. 5c; oz. 25c; ¼ lb. 75c; 1 lb. $2.25.**

Early Summer — 73 to 76 days
Deservedly popular with market gardeners throughout the country. The heads are large and solid, weighing 8 to 10 pounds each. **Pkt. 5c; oz. 25c; ¼ lb. 75c; 1 lb. $2.00.**

All Head Select★ — 80 days
A yellows resistant cabbage that is two weeks earlier in season than Wisconsin All Seasons. This cabbage was secured by selection from All Head Early. **Pkt. 5c; oz. 35c; ¼ lb. $1.00; 1 lb. $3.00.**

CABBAGE — Continued

All Seasons — 85 to 90 days

Is an old standard and true to its name. It does well planted at all seasons. An excellent variety for fall and winter use. The heads are somewhat flattened but nearly round, very solid and of fine quality. The plants are very vigorous and are noted for withstanding the hot sun or a long dry spell. **Pkt. 5c; oz. 25c; ¼ lb. 75c; 1 lb. $2.25.**

Wisconsin All Seasons★ — 90 to 95 days

A yellows resistant strain of All Seasons. This is a short stem drumhead type of cabbage with a reputation for heading uniformly and heavy yielding. **Pkt. 5c; oz. 35c; ¼ lb. $1.00; 1 lb. $3.00.**

Wisconsin Hollander★ — 100 to 110 days

A very fine strain of yellows resistant Hollander formerly known as Wisconsin No. 8. A splendid winter keeper. **Pkt. 5c; oz. 35c; ¼ lb. $1.00; 1 lb. $3.00.**

Drumhead Savoy — 95 to 105 days

The best of the Savoy or curly leaf type of cabbage. Produces a large solid head upon a short stem. It is very sweet and delicious especially after being touched by frost. A good winter keeper. **Pkt. 5c; oz. 30c; ¼ lb. 85c; 1 lb. $2.50.**

For Insecticides see pages 47 to 49.

Cabbage plants are listed on page 19.

Copenhagen Market Cabbage

Late Flat Dutch — 95 to 105 days

A low growing variety, heads large, bluish green, round, solid, broad and flat on top. An excellent fall and winter variety, and a good keeper. **Pkt. 5c; oz. 25c; ¼ lb. 75c; 1 lb. $2.25.**

Red Hollander★ — 90 to 95 days

We are now able to offer our customers a yellows resistant strain of red cabbage. This strain is of good color, hard, ball-shaped head and a heavy yielder. Good for mid-season or late crop. **Pkt. 5c; oz. 35c; ¼ lb. $1.00; 1 lb. $3.00.**

We are headquarters for cabbage plants during May and June. Prices in quantities quoted on request, or call if convenient.

Mammoth Red Rock — 100 Days

Heads are of a deep red color to the very center. A hard heading variety, producing heads 10 to 15 pounds each. **Pkt. 5c; oz. 30c; ¼ lb. 85c; 1 lb. $2.50.**

Danish Roundhead★ — 100 to 105 Days

Is an improved strain of the Danish Ballhead, being slightly earlier, shorter stemmed and heavier. It is less liable to blight and is an excellent keeper. **Pkt. 5c; oz. 25c; ¼ lb. 75c; 1 lb. $2.25.**

Holland★

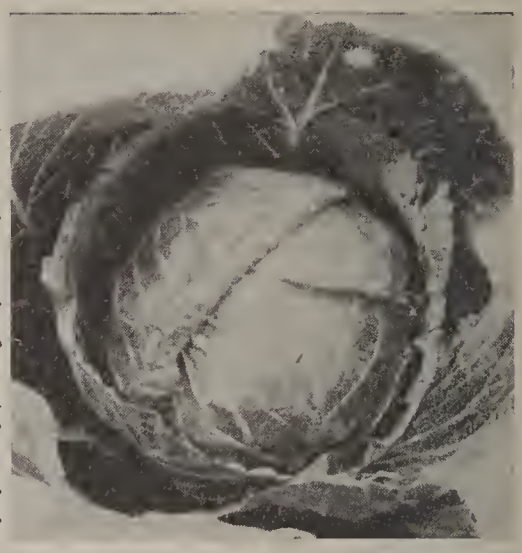
100 to 105 DAYS.

The standard winter cabbage, and most remarkable late variety. **Pkt. 5c; oz. 25c; ¼ lb. 75c; 1 lb. $2.25.**

Danish Ballhead★

100 to 105 DAYS.

This is one of the most largely grown varieties for fall shipping and winter keeping. It is large, round and solid. **Pkt. 5c; oz. 25c; ¼ lb. 75c; 1 lb. $2.25.**



Holland—The Best Late Cabbage

The vegetables best suited for market are indicated by a star (★) after the name of the variety.

CHINESE or CELERY CABBAGE

Is a delicious salad plant. It thrives best during the cooler part of the growing season, consequently is generally planted as a fall crop, usually during July. Seed should be sown where crop is to mature and the plants thinned to stand about 15 inches apart in the row.

Improved Pe Tsai (Chihili) — 75 to 80 days

This is the very finest of the Chinese Cabbage. The heads are long and slender, weighing from 2 to 5 pounds each. **Pkt. 5c; oz. 20c; ¼ lb. 65c; 1 lb. $2.00.**

CELERIAC

CULTURE. Celeriac seed may be treated the same as celery until outdoor planting. Plant in rows 14 inches apart, 3 or 4 inches apart in the row.

Large Smooth Turnip Rooted — 120 days

The best there is. This vegetable deserves a wider recognition by growers or home gardeners. Is fine for flavoring soups, or roots may be cooked up creamed. **Pkt. 5c; oz. 20c; ¼ lb. 65c; 1 lb. $2.00.**

CHIVES

Are hardy perennial plants of the onion type. The tops are used for flavoring. Quicker results are obtained by setting out plants than by seeding as seedlings will not do much the first year, while the sets or plants will multiply very rapidly. **Pkt. 10c; oz. $1.00.**

CHICORY

Used as a winter salad. May be used as a Cos Lettuce, and is delicious when served with salad dressing. The plants form long parsnip-shaped roots that are lifted in the fall, trimmed of leaves, and stored in soil in a cool place until wanted for forcing. **Witloof. 150 days. Pkt. 5c; oz. 20c; ¼ lb. 65c.**

COLLARDS

A tall loose-leaved plant that does not form heads, but leaves similar to cabbage or kale. It is used as greens for the table. Sow seed thickly and transplant when 4 inches high. Thin to 2 to 3 feet apart in the row.

Georgia or Southern — 80 days

Grows about 2 to 3 feet tall, producing large light green leaves. Light frost improves the crop. **Pkt. 5c; oz. 10c; ¼ lb. 35c; 1 lb. $1.00.**

CRESS

CULTURE. Sow seed thickly in shallow drills 12 inches apart in the spring, and for a succession every two weeks. One oz. of seed required for 200 ft. of drill.

Fine Curled (Pepper Grass) — 40 to 50 days

Quick growing; leaves finely cut like parsley; growth dwarf and compact; crisp and pungent. Cut the greens before they get too tall. **Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 75c.**

Half Long Scarlet Nantes Carrot

CARROTS

One ounce of seed will sow 200 feet of row. Make the rows two feet apart to allow for horse cultivation. Keep free from weeds and cultivate occasionally until the roots are large enough for table use and if grown for commercial purposes they may be cultivated with profit throughout the season. When the plants are 3 inches high thin to 3 inches apart in the row.

Chantenay★ (Select Stock) 72 days

The Chantenay Carrot has been the favorite with the market gardeners for many years. Our select seed is recommended as best for general use. The flesh is of a beautiful orange color and of fine texture, tender, and very sweet. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c; 5 lbs. $3.00; 10 lbs. $5.50; 25 lbs. $12.00.**

Improved Danver's Half Long★

75 DAYS. Is a well known stump rooted variety. The root is of a rich dark orange color, smooth and heavy yielding, making it very desirable for both marketing and stock feeding. Roots will grow to 7 or 7½ inches in length. This is an excellent bushel carrot and one of the most popular of American varieties. Grows a little longer and larger than Chantenay. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c; 5 lbs. $3.00; 10 lbs. $5.50; 25 lbs. $12.00.**

Coreless 70 days

This variety of exceptional quality is recommended for its earliness, sweet mild flavor and uniformity in shape. The roots are cylindrical, very smooth, average about 6 to 7 inches in length. The flesh is an attractive rich red orange color, sweet and tender, entirely devoid of stringiness. Keep well. **Pkt. 5c; oz. 10c; ¼ lb. 35c; 1 lb. $1.00; 5 lbs. $4.25.**

Half Long Scarlet Nantes★ 70 days

Coreless, brittle, and fine grained with a mild sweet flavor. Roots are of reddish orange color, and 6 to 7 inches long when mature. It is one of the finest carrots grown for market or the home gardener. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c; 5 lbs. $3.00.**

Oxheart or Guerande 72 days

Earlier than the Danver's but not so long. It will produce a large thick carrot that can be very easily lifted from the ground. The flesh is bright orange, fine grained and sweet, roots growing to a length of about five inches long when mature. **Pkt. 5c; oz. 10c; ¼ lb. 35c; 1 lb. $1.25; 5 lbs. $5.25.**

Oregon Chantenay★ 72 days

A special strain selected from Chantenay which produces very smooth roots about one inch longer than regular Chantenay and of more even diameter the whole length of the carrot. It has proven popular with market gardeners and shippers. It is the best carrot for early bunching and is rapidly becoming popular where it has been tried. The roots are of deep orange color with small uniform core. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c; 5 lbs. $3.00.**

Imperator★ 77 days

Very attractive roots 7 to 8 inches long, slightly tapering. Sloping shoulder with slender tops firm enough to bunch well. The color is deep orange which extends to the center with a very small core. Specially adapted to peat land. Sow late for fall crop. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c; 5 lbs. $3.00.**

Improved Long Orange 88 days

A heavy yielder for light soils when roots may be easily dug. Roots are orange scarlet, fairly thick and as a rule grow entirely underground, thus having no green shoulder. Are from 10 to 12 inches long when matured. **Pkt. 5c; oz. 10c; ¼ lb. 35c; 1 lb. $1.25; 5 lbs. $5.25.**

Red Cored Chantenay★ 72 days

The tops are shorter and the foliage finer cut than the regular Chantenay. The surface of the root is smooth and free from rootlets. The color is a rich orange and the core is very small. It matures slightly earlier than the Chantenay. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 90c; 5 lbs. $3.75.**

Large White Belgian or Mastodon 90 to 100 days

For stock feeding. The largest producer of all carrots, one root often measuring 15 to 20 inches in circumference. It will produce as high as 20 to 30 tons per acre. Very fine for all kinds of stock, but is not for table use. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c; 5 lbs. $3.00.**

Victoria or Yellow Belgian (Stock Feeding)

90 TO 100 DAYS. A large yellow stock carrot by far the largest yellow carrot grown. The roots are exceptionally fine for all kinds of stock feeding, possessing high feeding properties. It is a heavy cropper on all kinds of soil, but is especially adapted for rich, sandy loam. **Pkt., 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c; 5 lbs. $3.00.**

OUR FRONT COVER PAGE.

Picture shows a portion of the yard of Mr. and Mrs. Robt. W. Jones, 731 Delaware Avenue, St. Paul, which won the Grand Prize in the 1938 home beautification contest conducted by the Ramsey County Garden Club. Shown in the picture is Mrs. Jones.

CAULIFLOWER

CULTURE. For early use, the seed should be sown indoors either in a greenhouse, hotbed or in the house about six weeks before setting out. Sow the seed ½ to ¾ of an inch deep. When plants are one or two inches high they can be transplanted to about 3 inches apart, thereby developing into stronger plants. As soon as the soil can be worked and pulverized, the plants may be set out in the open field 2 to 2½ feet each way.

Catskill Snowball 57 days

One of the best varieties for general market crop. It is early, a sure cropper and very attractive. **Pkt. 10c; ¼ oz. 60c; ½ oz. 90c; 1 oz. $1.50; ¼ lb. $5.50.**

Danish Giant or Dry Weather 67 days

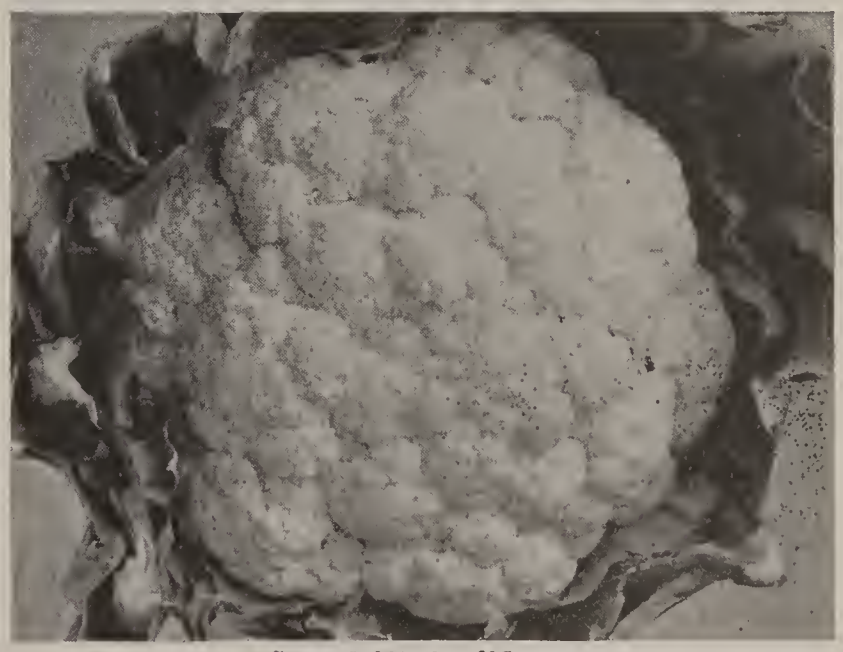
A larger and later variety that is generally planted for a fall crop. It will stand the dry weather of summer better than any other variety. Delicious flavor and of fine quality. **Pkt. 10c; ¼ oz. 60c; ½ oz. 90c; 1 oz. $1.50; ¼ lb. $5.50.**

Extra Selected Early Snowball★ 54 days

This is a strain of Snowball which is selected for earliness and uniformity of size and maturity. The fine solid heads are pure white of good size and of excellent quality. **Pkt. 10c; ¼ oz. 65c; ½ oz. $1.00; 1 oz. $1.75; ¼ lb. $6.00.**

Model★ 58 days

Later than the Snowball, but somewhat larger. Very attractive in appearance and delicious in flavor. It is not only suitable for early planting but superior for late planting. Heads are large and solid. **Pkt. 10c; ¼ oz. 65c; ½ oz. $1.00; 1 oz. $1.75; ¼ lb., $6.00.**



Snowdrift Cauliflower

Snowball★ 56 days

The most popular variety for early and general crop. Produces nice snow white heads 6 to 8 inches in diameter, of extra fine flavor. Is considered a standard by the market gardener, also very desirable for the home garden. **Pkt. 10c; ¼ oz. 60c; ½ oz. 90c; 1 oz. $1.50; ¼ lb. $5.50.**

Snowdrift or White Mountain* 58 days

Recognized as the most successful Cauliflower for the Market Gardener. It is early, large and makes a beautiful solid white head of excellent quality. **Pkt. 10c; ¼ oz. 65c; ½ oz. $1.00; 1 oz. $1.75; ¼ lb. $6.00.**

Gould's Reliable Self Blanching Celery

CELERY

CULTURE. For early crop seed should be sown indoors in February or March. The surface of seed bed should be covered with sand to hold moisture without becoming crusted. When seedlings are big enough to handle they should be transplanted to develop the roots and harden the tops. Plant out in the open when danger of severe frost is past and the soil can be worked up properly.

Gould's Reliable Self Blanching★ — 115 to 125 days

The seed is of French grown stock which has been brought to its present high standard of perfection after many years of careful selection. The stalks are tender, brittle and very fine flavored. It is almost double the size of the common strain. **Pkt. 10c; oz. $1.00; ¼ lb. $3.00; 1 lb. $10.00.**

Golden Self Blanching, Dwarf★ — 115 to 125 days

Plants medium sized, stocky, 20 to 24 inches tall, leaf stalks thick, solid, blanch readily and are of sweet nutty flavor. **Pkt. 10c; oz. 75c; ¼ lb. $2.25; 1 lb. $6.25.**

Salt Lake or Utah — 125 to 130 days

Salt Lake grows to a good height and produces stalks that are crisp and tender with a delicious flavor. This celery will bleach much quicker than any other green variety. It is also very desirable for late storing. **Pkt. 10c; oz. 75c; ¼ lb. $2.25; 1 lb. $7.50.**

White Plume — 112 to 115 days

The earliest celery grown. It is hardy and requires very little effort to produce. Is in much demand for market on account of its fine appearance, also because it requires very little time for blanching. **Pkt. 5c; oz. 25c; ¼ lb. 75c; 1 lb. $2.50.**

SWEET CORN

CULTURE. Have your soil well prepared but do not plant sweet corn until the ground is warmed up thoroughly. Then the early varieties may be planted in hills 30 inches apart both ways while the later varieties should be planted 3 to 3½ feet both ways. Plant 5 or 6 kernels to the hill from 1 to 2 inches deep.

SWEET CORN PRICES: 25 lbs. and up at 100 lb. rate.

Earliest Golden Sweet★ — 65 days

The earliest 8 row yellow variety that we know of. It is as large as Golden Bantam. The stalk height is about 5 feet and ear length about 6 inches; 8 rowed, good yellow color, excellent quality. The extreme earliness and excellent quality make it outstanding. **Pkt. 10c; ½ lb. 15c; 1 lb. 25c; 2 lbs. 45c; 10 lbs. $1.75; 100 lbs. $15.00.**

Early Golden Market★ (Golden Hummer) — 70 days

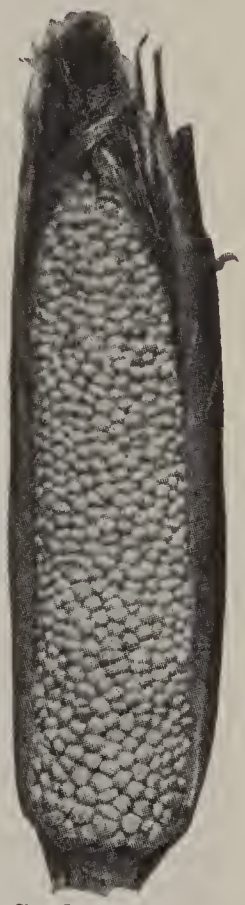
An Early yellow Sweet Corn that is very popular with the Market Gardeners. It is larger than Sunshine and about one week earlier. It is also a good yielder. **Pkt. 10c; ½ lb. 15c; 1 lb. 25c; 2 lbs. 45c; 10 lbs. $1.75; 100 lbs. $15.00.**

Golden Sunshine★ — 70 to 76 days

In this corn of rich golden color we find a fine sweet variety maturing a week or ten days earlier than Golden Bantam. **Pkt. 10c; ½ lb. 15c; 1 lb. 25c; 2 lbs. 45c; 10 lbs. $1.75; 100 lbs. $15.00.**

Hybrid 8 Row Blend — 70 to 85 days

This is a blend of four different well known named Hybrids, primarily for home gardens. Gets away from the disadvantage of having the crop all mature at one time. There is a spread of ten days to two weeks in picking dates between the earliest and latest named Hybrids. The stalk height and ear type are similar all the way through. **Pkt. 10c; ½ lb. 20c; 1 lb. 35c; 2 lbs. 60c.**



Golden Colonel

Golden Bantam★ — 80 days

Recognized by most everyone as the sweetest corn grown. It produces a fair sized ear of beautiful golden yellow kernels. May be planted at intervals of two weeks until July 1st. **Pkt. 10c; ½ lb. 15c; 1 lb. 25c; 2 lbs. 45c; 10 lbs. $1.75; 100 lbs. $15.00.**

Early Golden Giant★ — 84 days

Because of the extreme tenderness, combined with the rich exquisite sugary flavor, the Golden Giant has become the standard of perfection for sugar corn. **Pkt. 10c; ½ lb. 15c; 1 lb. 25c; 2 lbs. 45c; 10 lbs. $1.75; 100 lbs. $15.00.**

Black Mexican — 88 days

This sweet corn is the sweetest of all and is noted for its delicious flavor and fine grain qualities. The ripe kernels are bluish-black. **Pkt. 10c; ½ lb. 20c; 1 lb. 30c; 2 lbs. 50c; 10 lbs. $2.00; 100 lbs. $17.00.**

Golden Colonel (Golden Country Gentleman) — 91 days

Received Award of Merit in the 1936 All America Vegetable selections. Golden Colonel is identical to Country Gentleman in every respect except for its bright yellow color. **Pkt. 10c; ½ lb. 20c; 1 lb. 30c; 2 lbs. 50c; 10 lbs. $2.00; 100 lbs. $20.00.**

Early Evergreen — 90 days

Produces large white ears of extra fine quality, which mature about 10 to 15 days ahead of Stowell's Late Evergreen. We recommend it very highly for both home and market gardens. **Pkt. 10c; ½ lb. 15c; 1 lb. 25c; 2 lbs. 45c; 10 lbs. $1.75; 100 lbs. $15.00.**

Treat Sweet Corn Seed with Semesan Jr. Makes early planting safer, improves quality and crop yields. See page 49 for Semesan prices.

Golden Giant Evergreen★ — 90 days

A large yellow sweet corn. The ears are 8 to 9 inches long and contain 12 to 14 rows of beautiful yellow kernels. The flavor is very much like Golden Bantam. Matures about two weeks later. **Pkt. 10c; ½ lb. 15c; 1 lb. 25c; 2 lbs. 45c; 10 lbs. $1.75; 100 lbs. $15.00.**

Country Gentleman — 93 days

A great favorite for the home garden. It does not grow very large but the white kernels being very deep and packed so tightly together that the food value from one ear is almost as great as that on larger ears. The flavor is delicious. **Pkt. 10c; ½ lb. 15c; 1 lb. 25c; 2 lbs. 45c; 10 lbs. $1.75; 100 lbs. $15.00.**

Stowell's Late Evergreen — 95 days

The best known and most popular late variety. Its large ears with long deep white kernels of a rich sugary flavor cannot be surpassed. **Pkt. 10c; ½ lb. 15c; 1 lb. 25c; 2 lbs. 45c; 10 lbs. $1.75; 100 lbs. $15.00.**

Stowell's Evergreen

POP CORN

CULTURE. Sow in rows 3 feet apart, 2 to 3 inches deep, as soon as danger of frost is over at the rate of 4 to 6 pounds to the acre, or 1 ounce to 40-foot row. Thin plants to 10 to 12 inches in the row. Care in curing determines popping qualities.

Gould's South American

This variety has become very popular. The kernels are nearly round and deep orange in color. When popped the kernels are nearly twice the size of other corn and are of a creamy yellow color. Popped kernel has no hard center. The stalks grow 6 to 8 feet high and produce 2 to 3 large ears on each stalk. **Pkt. 10c; 1 lb. 25c; 5 lbs. 85c; 10 lbs. $1.60; 25 lbs. $3.50; 100 lbs. $11.00.**

Gould's Japanese Dwarf Hulless

Very tender and almost hulless. Ears are short and chunky. Although the kernels are very small they pop to large size, being very tender and brittle. **Pkt. 10c; 1 lb. 25c; 5 lbs. 85c; 10 lbs. $1.60; 25 lbs. $3.50; 100 lbs. $11.00.**

CUCUMBER

CULTURE. Plant in hills 6 feet apart each way, 10 to 20 seeds may be planted in each hill, covering a circle 15 inches in diameter. When plants are three or four inches high they may be thinned to 5 or 6 to a hill, allowing for cutworms and beetles destroying one or two. Cultivate frequently until the vines cover the ground. The seed may also be started in berry boxes by placing them in a hotbed. When the weather is suitable—settled and warm—remove the box as plants are placed in the garden. The fruit should be gathered as soon as large enough for use, or else the productiveness of the vines will be permanently injured. One ounce of seed is required for 60 hills; two to three pounds per acre.

Market Gardeners and Florists.
We do not issue a separate Market Gardener's catalog and price list, but you will note that we list larger amounts than the small gardener buys, and these quantity prices are intended for the market gardener. Special flower seed price list for florists will be sent on request.

The vegetables best suited for market are indicated by a star (★) after the name of the variety.

Straight-8★ (1935 All American) — 68 days
Outstanding as a shipping cucumber, also recommended for the home garden. 1½ inches in diameter, 8 inches long, and well rounded at both ends. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00.**

Black Diamond★ — 60 days
Very prolific, dark green, about 8 inches long, 2½ inches thick. Very early. A fine shipper. Stays green long after picking. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00.**

N. K. & Co's Sterling★ — 65 days
One of the earliest cucumbers of the White Spine type. For general use it is unsurpassed. It can be picked at any size and used for pickles if desired, and will also make a fine large cucumber. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00.**

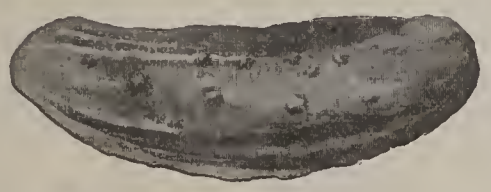
The Vaughan★ — 72 days
Is one of the finest extra long cucumbers grown. The average length when matured is from 12 to 15 inches and the diameter from 2 to 2½ inches at the center, tapering gradually at both ends. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00.**

Longfellow★ — 72 days
An excellent, long, slender, dark green variety, equally desirable for greenhouse forcing or outdoor culture. This is an ideal cucumber for the market gardener, growing 12 to 14 inches in length. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00.**

Davis Perfect★ — 65 days
A selected strain of Long White Spine which retains its dark green color and good qualities long after being picked. It is crisp, solid, of fine flavor and has very few seeds. Will average about ten inches or more in length, is quite slender, tapering slightly at both ends. The Davis Perfect makes a splendid cucumber to grow for pickling, as well as for table. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 90c.**

Improved Arlington White Spine★ — 60 days
One of the earliest and most popular cucumbers of the White Spine family. This improved strain is much superior to the old sort. The skin is an attractive glossy dark green, the flesh firm but tender and of delicious flavor. Is a heavy yielder and measures 6 to 9 inches in length. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 90c.**

Gould's Pickling — 56 days
Fruit is of medium size, 3 to 4 inches long, slightly tapering at each end, and of a deep green color. The flesh is crisp and tender. It is very productive. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 90c.**



Gould's Pickling Cucumber. About One-half Actual Size.

Long Green★ — 70 days
Produces dark green fruit from 10 to 14 inches long. Flesh is firm and crisp. Fine for slicing, also desirable for ripe cucumber pickles. The bulk of the crop matures late, and is in much demand for both the home garden and for market gardeners. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 90c.**

FERTILIZER FOR CUCUMBERS

About 200 pounds of 6-15-9 fertilizer to the acre will give splendid results for cucumbers. Apply as a side-dressing at seeding time.

Early Fortune★ — 65 days
One of the leading early varieties with a rich dark green color. It grows about nine inches long, slightly tapering at both ends. Has very few seeds. Is a fine shipper. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 90c.**

Straight-8 Cucumber (1935 All American)

Boston Pickling — 58 days
Very productive, and grown mostly for pickles. The fruit is medium size, bright green in color, and smooth. Flesh crisp and tender. Grows 5 to 6 inches long. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 90c.**

Chicago or Westerfield Pickling — 59 days
Is medium in length, pointed at each end, and has large spines. Is very prolific, and a favorite of many who grow pickles on a large scale. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 90c.**

National Pickling★ — 56 days
An early pickling strain developed by the Mich. Agric. College. Fruits deep green, straight, blunt-ended but not chunky. An excellent small pickling variety. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00.**

White Spine Evergreen — 65 days
A fine strain of White Spine bearing smooth, round, dark green fruit 10 to 12 inches long of fine quality. Especially recommended for hotbed culture. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00.**

Extra Long White Spine — 65 days
An extra fine variety for either greenhouse or outdoor crop. It grows to a large size in a very short time and commands fancy prices on account of its fine appearance. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00.**

Japanese Climbing — 60 days
A vigorous grower. Very desirable for planting along fence or trellis in small gardens. A real climber that does best on a pole or trellis. Fruit 10 to 12 inches long, tender and crisp. Very fine for table use. **Pkt. 5c; oz. 15c; ¼ lb. 50c.**

EGG PLANT

CULTURE. Sow in hotbed in March and April, and when two inches high transplant to pots or boxes to develop root growth. About June 1st plant in field or garden 2½ to 3 feet apart each way and cultivate same as cabbage or tomato. Protect young plants from sun as much as possible, also from potato bugs.

New York Spineless★ — 85 days

The standard for the garden. The plants are stocky and low branching and produce extra large dark purple fruit of perfect shape. Is the handsomest type and most perfect strain of Eggplants, usually bearing eight to ten large fruits of the finest quality, during a season. **Pkt. 5c; oz. 30c; ¼ lb. $1.00; 1 lb. $3.50.**

Black Beauty★ — 82 days

Slightly earlier than the N. Y. Spineless but not so large. The skin is of a rich dark purple color, and very desirable for market as the skin holds its color for a long time. **Pkt. 5c; oz. 30c; ¼ lb. $1.00; 1 lb. $3.50.**

BLACK BEAUTY EGGPLANT

ENDIVE

This plant furnishes attractive and appetizing salad for the fall and winter months, or by repeated sowing a supply may be had nearly all the year 'round. Useful in flavoring soups, stews, etc. Makes delicious greens if cooked like spinach. Cultivation same as for lettuce.

Broad Leaved Batavian★ — 90 to 95 days

One of the best varieties for salads. Leaves are broad, more or less twisted and waved with bright deep green, with nearly white midrib. Inner leaves form a fair head which blanches to a creamy white. Crisp, tender, and of fine flavor. **Pkt. 5c; oz. 10c; ¼ lb. 35c; 1 lb. $1.00.**

Green Curled★ — 90 to 95 days

A hardy and vigorous grower, with bright deep green leaves finely cut. The leaves should be tied up in the shape of a head for 3 or 4 weeks before using. Is very popular with market and home gardeners. **Pkt. 5c; oz. 10c; ¼ lb. 35c; 1 lb. $1.00.**

GARLIC

CULTURE. Prepare the ground as for Onions; separate the sets and plant them eight inches apart and four to six inches apart in the drill, covering two inches deep. When the leaves turn yellow, pull up bulbs. Dry in the shade. **Lb. 30c; 10 lbs. or more at 25c per lb.** If wanted by parcel post add postage to cover mailing cost.

HERBS

Most of the varieties of herbs thrive best on sandy soil, while some are stronger and better flavored when grown on soil that is rather poor. In all cases the soil should be carefully prepared and well cultivated as the young plants are for the most part delicate and easily choked out by weeds.
Sow as early as the ground can be made ready, taking pains that the soil is fine and pressed firmly over the seed.

Anise. Used for garnishings, and flavorings. **Pkt. 5c.**

Balm. Leaves used for making Balm Tea. **Pkt. 5c.**

Basil, Sweet. Leaves and shoots used for flavoring soups, stews, etc. **Pkt. 5c.**

Borage. Leaves used in salads; flowers fine for bees, also an aromatic flavor to drinks. **Pkt. 5c.**

Caraway. Seed used for flavoring bread, cake, etc.; leaves for soups, etc. **Pkt. 5c; oz. 15c; ¼ lb. 45c; 1 lb. $1.25.**

Catnip or Catmint. Used for seasoning. **Pkt. 5c.**

Coriander. Seed used for beverages. **Pkt. 5c.**

Dill. Used to flavor cucumber pickles. **Pkt. 5c; oz. 10c; ¼ lb., 25c; 1 lb. 55c.**

Fennel, Sweet. Ornamental; young shoots are used in salads, soups and fish sauces; seed in confectionery and for medicinal purposes. **Pkt. 5c.**

Horehound. For seasoning and cough syrup. **Pkt. 5c.**

Lavender. Medical, also used as a perfume. **Pkt. 5c.**

Marjoram, Sweet. Tender young shoots and leaves which are used green, or dried for flavoring soups, dressings, etc. **Pkt. 5c; oz. 40c; ¼ lb. $1.00; 1 lb. $3.00.**

Pennyroyal. Agreeable odor and flavor. **Pkt. 5c.**

Rosemary. For flavoring as well as medical. **Pkt. 5c.**

Saffron. Used for medicine and also in dyeing. **Pkt. 5c.**

Sage. For seasoning. Cut the leaves and tender shoots just as the plant is coming into flower. Dry quickly in the shade. **Pkt. 5c; oz. 30c; ¼ lb. $1.00; 1 lb. $3.50.**

Summer Savory. Dried leaves, stems and flowers used for flavoring soups and dressings. **Pkt. 5c; oz. 25c; ¼ lb. 75c; 1 lb. $3.00.**

Thyme. Used for a headache tea, also for flavoring. **Pkt. 5c; oz. 75c; ¼ lb. $2.50.**

KALE

CULTURE. Sow in May or June and cultivate the same as cabbage. Makes excellent greens and is improved by light frosts. More hardy than cabbage.

Dwarf Curled★ — 55 days

A very finely curled dwarf spreading variety. Foliage is long and bright green. Is even more hardy than cabbage. Produces excellent greens for winter and spring. **Pkt. 5c; oz. 10c; ¼ lb. 35c; 1 lb. $1.00.**

Tall Curled★ — 60 days

This variety grows to a height of two to three feet, bearing long plume-like leaves of a light green color. Is rather improved than injured by fairly heavy frosts. **Pkt. 5c; oz. 10c; ¼ lb. 35c; 1 lb. $1.00.**

KOHL-RABI

CULTURE. Sow in drills 15 inches apart, ½ to ¾ inch deep. When a few inches high thin to 6 to 8 inches apart in the row and cultivate same as beet. Bulbs grow above ground. Roots should be prepared like turnips or cauliflower for cooking. Are much sweeter than turnips.

Early White★ — 55 to 65 days

Very early, producing small white bulbs. Used especially for forcing. One of the best for table use. **Pkt. 5c; oz. 20c; ¼ lb. 65c; 1 lb. $2.00.**

Early Purple — 60 to 70 days

The bulbs are purple on surface; the flesh light green. A few days later than the White but a little larger and more heat resistant. **Pkt. 5c; oz. 25c; ¼ lb. 90c; 1 lb. $2.75.**

LEEK

CULTURE. Sow about May 1st in drills 12 inches apart from ½ to 1 inch deep. When 6 inches high transplant to rows 15 inches apart and 5 inches apart in row, setting the plants in the ground up to their center leaves and drawing this ground up as they grow, causing them to bleach.

American Flag★

A strong growing variety, producing large thick stems which have a sweet flavor. Leek is excellent for stews, soups, or creamed. **Pkt. 5c; oz. 20c; ¼ lb. 60c; 1 lb. $2.00.**

LETTUCE

CULTURE. Lettuce is the most popular of all salad plants and at the same time is one of the easiest to grow due to its comparative freedom from disease and insects. Seed may be sown in the open from April 20th to August 1st, or planted in the house or in frames any time after March 10th.

Rows should be 1½ feet apart, plants four inches apart in row after thinning. One ounce of seed will sow 150 feet of row, 2 to 2½ pounds required per acre.

Grand Rapids Lettuce

Fertilizer for Lettuce
Nitrate of Soda or Sulphate of Ammonia are especially recommended for Leaf Lettuce, and for a first side dressing of Head Lettuce. For later applications, we recommend 3-12-12.

LOOSE LEAF VARIETIES

Grand Rapids★ — 43 to 45 days
The most popular variety to grow for market. When exposed for sale it retains its handsome fresh appearance longer than any other variety. Leaf is curly and of light green color and crimped at the edge. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00.**

Black Seeded Simpson★ — 46 to 48 days
One of the best and most popular varieties of Leaf Lettuce. Color light yellowish green, its large leaves are thin, tender and sweet. One of the finest for home garden and a favorite market lettuce. Very heat resistant. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00.**

Prize Head — 46 to 48 days
The name is rather deceiving, Prize Head being a crisp and tender, loose leaf sort with a reddish brown tint of fine quality. Of quick growth and sweet flavor, distinct from any other variety. One of the best for the home garden. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00.**

Chicken Lettuce
So called on account of the abundance of greens it furnishes for poultry feeding or for rabbits. Will come quickly again after cutting. Will send up stalks three to four feet long. Of little value for table use. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00.**

HEADING VARIETIES

CULTURE FOR HEAD LETTUCE. If lettuce plants have been started indoors they should be transplanted as soon as they begin to crowd. Place them six to twelve inches apart in the row in extra rich soil and if the sun has become very hot, it will be best to furnish partial shade.

Sterling — 63 days
The earliest of the heading varieties, fine for forcing, as well as for the home garden. A grand lettuce, very sweet, crisp and beautiful in appearance. **Pkt. 5c; oz. 15c; ¼ lb. 40c; 1 lb. $1.10.**

May King★ — 63 days
A large early compact heading variety unequaled for early spring planting. The outer leaves are of a light yellowish green, tinged with reddish brown. The heart bleaches to a rich golden yellow, having a fine, rich buttery flavor. **Pkt. 5c; oz, 15c; ¼ lb. 40c; 1 lb. $1.10.**

Big Boston★ (White Seeded) — 76 days
A heading variety forming a good sized solid head which is yellow and of splendid quality. The outer leaves are bright green and edges are tinged with brown. **Pkt. 5c; oz. 15c; ¼ lb. 40c; 1 lb. $1.10.**

Crisp as Ice — 74 days
A large solid head with outer leaves variegated brown and green. Has a delicious flavor and is the ideal lettuce for the home garden. **Pkt. 5c; oz. 15c; ¼ lb. 40c; 1 lb. $1.10.**

Iceberg — 84 days
Heads are large and firm and well blanched. Color of leaves is light green with faint brown tracing on the border. A quick grower, heads always crisp and tender. **Pkt. 5c; oz. 15c; ¼ lb. 40c; 1 lb. $1.10.**

Hanson Head — 80 days
An old reliable sure heading sort. Color clear light green. A fine variety for midsummer planting as it stands the hot weather better than most sorts. Much in demand by both the market and home gardener. **Pkt. 5c; oz. 15c; ¼ lb. 40c; 1 lb. $1.10.**

New York★ No. 12 — 77 days
A very large, late popular heading variety. It roots deeply and therefore can resist the hot dry weather, making it very desirable for late planting. The color is a clear dark green, the heart blanching beautifully, being crisp, tender and delicious. **Pkt. 5c; oz. 15c; ¼ lb. 40c; 1 lb. $1.10.**

New York Head Lettuce

Salamander — 72 days
It forms large solid heads of thick, smooth, tender leaves of fine quality. It withstands hot weather remarkably well, and remains in head a long time before going to seed. Therefore, can be planted any time during the summer. One of the best outdoor heading varieties. **Pkt. 5c; oz. 15c; ¼ lb. 40c; 1 lb. $1.10.**

MUSTARD

A very quick growing foliage plant that is grown principally for greens. Mustard greens have a rich flavor and are fully as healthful and nutritious as spinach.

Giant Southern Curled★
Used largely for salads or greens. Grows very large with a beautiful curled leaf. Very tender, of fine flavor. **Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c.**

Smooth Leaved
An excellent variety with very large, light green, fairly smooth leaves, borne well above the ground. Very prolific and hardy. **Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c.**

Tendergreen
A Japanese mustard or spinach. Very quick growing, can be cut four weeks after planting and is very resistant to summer heat. **Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 75c.**

MUSKMELON

CULTURE. Muskmelons do best on moderately rich light, warm mellow loam. Do not plant until the ground has warmed thoroughly, as they will start quicker and withstand the attacks of insects so much better.

Plant in hills 5 or 6 feet apart both ways. Mix in the hill before planting, one large cupful of Commercial Fertilizer. Plant 1 inch deep, 10 to 15 seeds to the hill. When plants are 3 inches high, thin to 4 or 5 in a hill, leaving the best plants.

The Melons best suited for market are indicated by a star (★) after the name of the variety.

Gould's Osage★ — 95 days

A selected strain of Miller's Cream or Osage. The fruit is nearly round and slightly ribbed. The skin is dark green and partly netted. The flesh is of a deep salmon color, very thick and sweet. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00; 10 lbs. $7.50.**

Gould's Osage Muskmelon

Golden Osage★ — 95 days

An improved strain of Osage melon combined with the Yellow Meated Japan. The flesh is of a fine golden yellow, very thick meated and the flavor is delicious. The skin is of a light yellowish tint and partly netted. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00; 10 lbs. $7.50.**

Bender's Surprise★ — 95 days

A very fine large, round, salmon-fleshed melon of exceptional flavor. The skin is of a light yellowish color and fairly well netted, very attractive and a good shipper. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00; 10 lbs. $7.50.**

Hale's Best★ — 80 to 90 days

A remarkably early shipping melon from the Imperial Valley of California. The melon is oval in shape, about 6 inches long by 4½ inches in diameter with very heavy netting and distinct ribbing. The flesh is exceptionally thick and a deep salmon in color. It is very sweet and a good keeper. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00; 10 lbs. $7.50.**

Delicious★ — 83 to 90 days

This is perhaps the largest of the early Muskmelons. Is especially recommended for roadside markets and local fruit and vegetable stands. It is large, well netted and has a very delicious flavor. The skin is light green and the flesh a beautiful yellow. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00; 10 lbs. $7.50.**

Sugar Rock★ — 85 days

One of the newer varieties of melon of high quality and very fine flavor. The flesh is a rich salmon, the skin a greyish green color with heavy, coarse netting. The shape is almost round and very solid. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00; 10 lbs. $7.50.**

Netted Rock — 83 days

A heavy meated cantaloupe of the Rocky Ford type. The flesh is green, tinged with salmon pink around the seed cavity. The flavor is sweet and delicious. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00.**

Milwaukee Market★ — 87 days

This is a fine melon which originated near Milwaukee. For a home garden melon or the roadside market it has no equal. Fruit of medium size, nearly round, lightly ribbed and fairly netted; skin light green, flesh thick, salmon colored and very sweet. Every home gardener who can grow melons should try this. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00; 10 lbs. $7.50.**

Early Sunrise★ — 80 days

A very early type similar in appearance to a small Bender's Surprise. It is one of the earliest yellow meated melons on the market. The fruit averages around 5 pounds, is round oval in shape, and the flesh is deep orange, with very little fiber and sweet with a pleasing flavor. The outside appearance is light yellow with very little netting. This variety, in our opinion, has a definite place because of its earliness, quality and size. It is a week earlier than the Bender's type. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00; 10 lbs. $7.50.**

Oregon Delicious★ — 85 to 90 days

The fruits usually weigh 6 to 8 pounds. The shape is round oblong with a distinct little neck at the stem end. The fruits are slightly ribbed with a creamy green color when mature. The flesh is thick, salmon colored and of excellent quality. It has a distinctive flavor of its own. The melons are quite heavily netted and of attractive appearance. **Pkt. 5c; oz. 15c; ¼ lb. 50c; 1 lb. $1.50.**

The Golden Champlain Cantaloupe★ — 80 to 90 days

It is heavily netted, has a thin but tough rind, very thick flesh and small seed cavity. The flesh is a rich golden color very tender, juicy and sweet. It is fine grained, free from stringiness and uniformly delicious clear to the rind. Growers always get top prices and very seldom have enough to supply the demand. **Regular, Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00. Originators Strain, Pkt. 5c; oz. 30c; ¼ lb. 90c; 1 lb. $3.00.**

Improved Hoodoo, or Hearts of Gold★ — 94 days

Medium size, round and distinctly ribbed. The skin is thickly netted and the flesh a rich, deep orange color of fine quality, with a very small seed cavity. Very solid and firm. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00; 10 lbs. $7.50.**

Golden Marvel★ — 96 days

A new melon that will find favor with growers who wish to grow the best. They weigh from 5 to 8 pounds each. The flesh is a very deep orange color and the flavor is delicious. **Pkt. 10c; oz. 45c; ¼ lb. $1.75; 1 lb. $5.00.**

Honey Dew Melon — 112 days

Is in a class by itself. It is almost round; the skin is smooth and of a creamy yellow color. The flesh is light green and very sweet. We recommend starting in cold frames. **Pkt. 5c; oz. 15c; ¼ lb. 45c; 1 lb. $1.25.**

Salmon Fleshed Rocky Ford — 88 days

This variety has rapidly grown in favor. The flesh is a rich salmon color and fine grained. The seed cavity is unusually small, which accounts for its superior shipping qualities. Very desirable for the home garden. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00.**

Yellow Meated Japan★ — 94 days

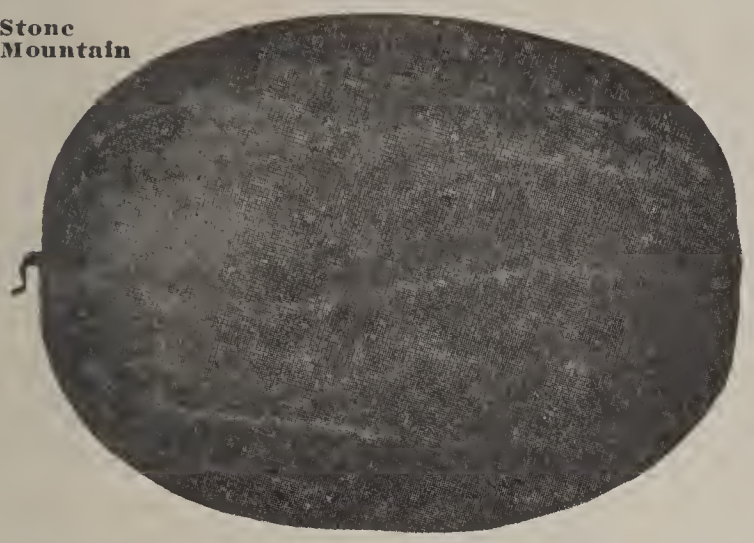
The melon is nearly round, grows to a large size, often weighing from 10 to 12 pounds each. It is unevenly ribbed, the skin turning from greenish white to yellowish white when ripe. The flesh is very thick of extremely delicious flavor, the color a deep salmon. A fine melon. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00.**

SOILTEX A test for acid soil

SOILTEX Tells What Your Soil Needs—With Soiltex you can determine exactly in a few minutes whether your soil is acid, and how much lime it needs. Each outfit will make 75 to 100 tests. Full directions, color chart and lime table included. Postpaid $1.00.

WATERMELON

CULTURE. The soil must be rich, light, sandy loam to obtain best results. Plant in hills 8 to 10 feet apart each way, putting 10 to 15 seeds in each hill from ½ to 1 inch deep. When 3 inches high, thin to about 4 plants in each hill. Cultivate often.


Stone Mountain

Dixie Queen — 85 days

Skin is striped dark green and ivory. The flesh is bright red, very firm and fine flavored. Is almost round and weighs up to 50 pounds. Matures in about 80 days. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00.**

Fordhook Early★ — 82 days

An extra early watermelon of large size. The rind is tough, making it desirable for shipping purposes. Flesh is bright red and very sweet. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 90c.**

Gypsy or Georgia Rattlesnake — 90 days

Is finding favor with Northern growers, as it is a splendid keeper and shipper. Is oblong in shape, striped and mottled with green. Flesh is bright scarlet and very sweet. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 90c.**

Harris' Earliest — 80 days

A large early melon of oval shape. Skin green striped. Flesh bright red, and very delicious and tender. One of the first maturing melons. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 90c.**

Improved Kleckley's Sweets★ — 90 days

Oblong, medium early and of fair size. Skin is dark green and flesh a bright scarlet. One of the best early varieties for home use. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 90c.**

Improved Klondike★ — 82 days

The flesh is a distinctive shade of deep red. The rind is dark green; the shape is long with an average weight of 25 pounds. While more a home garden and market variety, it is adapted for shipping moderate distances. While cylindrical in shape, the Klondike tapers toward the blossom end. Matures in about 82 days. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 90c.**

Northern Sweet★ — 70 days

This is a new variety of watermelon introduced from Russia by the Minnesota Agricultural Experiment Station. It is very early and of high quality. The fruit is small weighing from 8 to 10 pounds. The color is medium green with lighter stripes. Flesh is dark red and very tender. It is exceptionally sweet and matures in about 70 days. **Pkt. 5c; oz. 10c; ¼ lb. 35c; 1 lb. $1.00.**

Stone Mountain (Sometimes Called Will Rogers)★ — 90 days

A variety which shows slight ribs like a cantaloupe. Fruits are very large, nearly round, the color of the skin a pleasing green and the flesh a deep crimson. The flavor is exceptionally fine and it is highly recommended for the home garden and roadside market. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 90c.**

Tom Watson★ — 95 days

A large, oblong melon, the skin of which is dark green, with thick netting on the entire surface. It weighs 30 to 40 pounds. The rind is thin but tough and flesh a bright, attractive red color, crisp, sweet and delicious. Desirable for both home and market use. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 90c.**

Winter Melon★

Is without a doubt the sweetest, firmest, most crisp of any watermelon grown. The rind is but ⅛ to ¼ inch thick. Shape round, skin almost cream color. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 90c.**

Citron for Preserves — 98 days

Fruit is round and smooth and very prolific. It is not edible raw, but makes very fine transparent preserves. Red seed grows small citrons; green, large size. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 90c.**

Kansas King★ — 85 days

This variety is also known as Early Kansas, Red Seeded Wichita, Hutchinson and Red Russian. It is a recent introduction of outstanding merit. The size is quite large, averaging about 20 to 25 pounds. The flesh is red, fine grained and of excellent quality, very sweet and watery. The outside appearance is dark green with alternating stripe of lighter green. The rind is medium thick which makes it suitable for trucking or shipping short distances. Kansas King in our opinion is one of the best early Melons. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00.**

MUSHROOM SPAWN

One bottle—spawn size, enough to seed an area 35 to 40 square feet, with full directions how to grow mushrooms, $1.15, postpaid.

OKRA

Okra is raised for the pods which are used in flavoring soups, stews, etc. The pods are at their best when 1 to 3 inches long.

CULTURE. Sow the seed thickly in rich ground as soon as the ground has become warm, in drills 3 feet apart and 1 inch deep. Thin out to 10 inches apart and cultivate freely.

Mammoth Long Podded — 56 days

Very productive and bear dark green pods from 8 to 9 inches long. **Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c.**

Dwarf Green — 50 days

Grows low but stocky and is very prolific. The short, deep green pods are of fine quality. **Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c.**

White Velvet — 60 days

Has long, smooth, white pods which are very tender and of exceptional flavor until almost full grown. **Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c.**

GARDEN TOOLS. We handle a complete line of Planet, Jr. garden drills and cultivators, also weeders, hand cultivators, etc. See pages 53 to 57.

Bermuda Onion Plants

All plants are grown in open field, thereby assuring strong, hardy plants. They are tied in bunches of about 100 plants and packed 60 bunches to the crate. Planting about 3 inches apart in 16-inch rows will require 100,000 plants to the acre. Please write for prices about April 1, 1939. We expect to have White Wax, Yellow Bermuda, Sweet Spanish and Prizetaker plants.

Onion Sets

On account of the uncertainty of the onion set market we are unable to quote prices at the time this book is being printed in January. See yellow list for prices. Prices will be available in March and April.

PEANUTS

Peanuts do best on a light, sandy soil. The ground should be ploughed deeply and thoroughly harrowed. Seed peanuts should be carefully hulled to prevent breaking the skin on the kernels. Plant in rows 2½ to 3 feet apart and 12 inches in the row. Cover about 2 inches. When matured, pull up and dry in the sun a few days. Vines are a valuable feed for horses, cattle and sheep. 1 lb. 25c, postage extra.

ONIONS

Gould's Minnesota Globe Onions

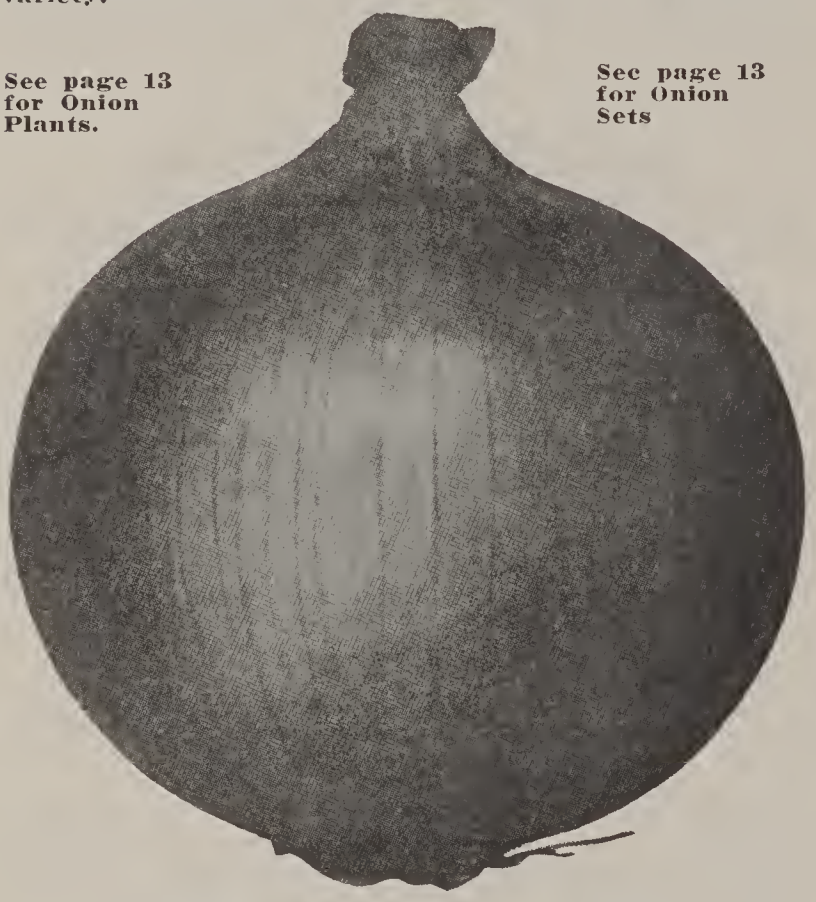
Everywhere Globe Onions bring the best prices and since our Minnesota Red, Yellow and White strains are the most highly developed of all Globes, we confidently recommend them to growers who want onions that will top the market.

CULTURE. Sow just as early as possible, that is, when the ground can be worked up nicely. Have your seedbed in perfect shape, for onions are slow in coming up and require close cultivation. It is sometimes advisable to mix a few radish seeds with your onion seed so as to allow for earlier cultivation. One ounce of seed will sow 200 feet in drill ½ inch to 1 inch deep, 4 to 5 pounds of seed to an acre drilled 13 to 14 inches apart for hand cultivation or 20 to 22 inches apart for cultivating with tractor. Cultivate often. Do not allow soil to bake.

All onions and other vegetable varieties best suited for market are indicated by a star (★) after the name of the variety.

See page 13 for Onion Plants.

See page 13 for Onion Sets



Gould's Early Yellow Globe Onion

RED VARIETIES

Gould's Minnesota Red Globe★ — 115 days

This beautiful strain of Red Globe onions is the result of many years' selection. For trueness of type, perfection of color and long keeping qualities, it is recognized as the best there is. The color of Minnesota Red Globe is a deep blood-red, extra dark, while the surface is smooth and glossy. The flesh is white, tinged with light purple, fine grained and unsurpassed in flavor. **Pkt. 5c; oz. 20c; ¼ lb. 70c; 1 lb. $2.00; 5 lbs. $7.50.**

Southport Red Globe — 115 days

A standard Red Globe onion of very good quality, and attractive in color. This onion is very uniform both in size and shape. Grows to a diameter of from two and a half to three and a half inches. **Pkt. 5c; oz. 20c; ¼ lb. 70c; 1 lb. $2.00; 5 lbs. $7.50.**

YELLOW VARIETIES

Gould's Early Yellow Globe★ — 102 days

A very rapid grower. Will mature 10 to 15 days earlier than the Minnesota or Southport Yellow Globe. Gould's Early Yellow Globe always gets top prices on the market. **Pkt. 5c; oz. 20c; ¼ lb. 70c; 1 lb. $2.75; 5 lbs. $12.50.**

Gould's Prizetaker★ — 105 days

Is without a doubt the largest onion that can be successfully grown in a northern climate. It is globe-shaped and has a straw-colored skin of a beautiful appearance, and is a great favorite for hotel and restaurant trade. Is very solid, of fine flavor and an excellent keeper. **Pkt. 5c; oz. 20c; ¼ lb. 70c; 1 lb. $2.00; 5 lbs. $8.75.**

Gould's Minnesota Yellow Globe★ — 112 days

This variety of Yellow Globe onion, like our Minnesota Red Globe, is a most select strain of Yellow Globe onion. It is perfect in shape and in color, also having all the best keeping qualities obtainable. A remarkable strain of yellow onions. **Pkt. 5c; oz. 20c; ¼ lb. 70c; 1 lb. $2.00; 5 lbs. $8.75.**

Southport Yellow Globe — 115 days

A very popular strain of Yellow Globe onion. Matures early and is a good keeper. Skin is of rich brownish yellow, the flesh white, crisp and fine grained. **Pkt. 5c; oz. 20c; ¼ lb. 70c; 1 lb. $2.00; 5 lbs. $8.75.**

Yellow Globe Danvers — 115 days

The bulbs are large and globular with very thin necks. The flesh is white and mild and the skin is orange-yellow. Is an enormous yielder, a fine keeper, and excellent for shipping. **Pkt. 5c; oz. 20c; ¼ lb. 70c; 1 lb. $2.00; 5 lbs. $8.75.**

Yellow Sweet Spanish, Utah Strain — 115 days

It is the most popular onion in Southern California and grows to large size, 4 to 4½ pounds. It does not produce the "stiff-necks" usual in the Spanish type. **Pkt. 5c; oz. 20c; ¼ lb. 70c; 1 lb. $2.00; 5 lbs. $8.75.**

WHITE VARIETIES

Gould's Minnesota White Globe★ — 112 days

Without a doubt the best White Globe onion grown. It is pure white, mild, and a good keeper. Being much milder than the red or yellow varieties, it is much preferred for family use. Our Minnesota White Globe Onion is one of the very finest varieties in existence. **Pkt. 5c; oz. 20c; ¼ lb. 70c; 1 lb. $2.00; 5 lbs. $8.75.**

Southport White Globe — 110 days

Is a standard of the White Globe varieties. Flesh is crisp, mild, fine grained and pure white. Bulbs should be stored in a cool dark place as soon as matured. **Pkt. 5c; oz. 20c; ¼ lb. 70c; 1 lb. $2.00; 5 lbs. $8.75.**

Gould's Pickling — 105 days

For early bunching or pickling and also for sets. It is pure white, round, and very firm and mild in flavor. **Pkt. 5c; oz. 20c; ¼ lb. 70c; 1 lb. $2.00; 5 lbs. $8.75.**

He-Shi-Ko Jap. Long White Bunching Onions

Beyond doubt, this is the best of bunching Onions; it is perfectly hardy in Minnesota. A vigorous grower, making no bulb, but producing fine white necks or stalks which may be trenched without fear of discoloration or rot. **Pkt. 5c; oz. 20c; ¼ lb. 70c; 1 lb. $2.00; 5 lbs. $8.75.**

White Bunching★

An extra early round, white variety. It is exceptionally fine for early bunching, table, and for boiling. Matures large, snowy white onions. **Pkt. 5c; oz. 20c; ¼ lb. 70c; 1 lb. $2.00; 5 lbs. $8.75.**

He-Shi-Ko White Bunching Onions

White Portugal or Silver Skin★ — 105 days

Of medium size, flat shaped, ripening early and uniformly. Has a fine mild flavor. A splendid onion for pickling and early bunching, also for white bottom sets. A good keeper. **Pkt. 5c; oz. 20c; ¼ lb. 70c; 1 lb. $2.00; 5 lbs. $8.75.**

PARSLEY

CULTURE. Sow in early spring in drills 14 inches apart, ½ to 1 inch deep. Parsley seed is slow to germinate and requires from 20 to 30 days to show above the ground, therefore it is advisable to sow a few radish or lettuce seeds with the parsley seed as a guide for early cultivation.

Dark Moss Curled★

The leaves are of an extra dark green color. It is a heavy producer, and on account of the densely curled character of its leaves a quantity can be gathered in a short time. Very fine for garnishing and flavoring. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 80c.**

Double Curled

Fine dwarf crimped leaves. Very similar to the Dark Moss Curled excepting that leaves are finer curled. A very fine sort. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 80c.**

Hamburg or Turnip Rooted Parsley

The edible roots of this variety resemble a small, thick parsnip in shape and color. They may be stored for the winter and used for flavoring soups, stews, etc. The flesh is white, a little dry, with the flavor of Celeriac. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 80c.**

Plain Leaved

Widely known as Italian Parsley, are not curled but have an excellent flavor. Plant is very hardy. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 80c.**

Hollow Crown Parsnips

PARSNIPS

CULTURE. Work the soil very deep and pulverize the seedbed thoroughly. Sow the seed in early spring. ½ to 1 inch deep, in rows 18 inches apart. As soon as the young plants appear, cultivate and hand weed them, and when 3 inches high thin to 4 inches apart in the row. One ounce of seed for 200 feet of row; 3 lbs. seed required for an acre.

Hollow Crown★ — 95 days

Better known and more generally grown than any other sort. The roots are smooth, large, tender and sweet and of the best quality. This variety is easily distinguished by the leaves arising from a cavity on the top or crown of the root. **Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 65c; 10 lbs. $5.00.**

All American or Improved Hollow Crown — 93 days

Not as long as the regular Hollow Crown but is more smooth and uniform in size. Free from fibre with only a small core. **Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 65c; 10 lbs. $5.00.**

Sweet Marrow — 85 days

A very desirable variety for both home garden and market. Is fine grained and exceedingly sweet, with roots smooth and attractive in appearance. **Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 65c; 10 lbs. $5.00.**

Guernsey — 85 days

A very good parsnip for the home garden. Being shorter than other varieties it is easier to dig up. Roots are very smooth, the flesh fine grained and excellent quality. **Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 65c; 10 lbs. $5.00.**

PEAS

CULTURE FOR GARDEN PEAS

Sow seed 2 inches deep in rich soil very early in the spring and for a succession put in varieties that mature at different periods or if dwarfs only are desired, sow a few rows every 10 days throughout the season. For hand cultivation sow in rows 15 inches apart, but if grown on a large scale it is best to sow in rows from 2 to 3 feet apart and cultivate them with a horse or tractor. One pound of seed will plant 100 ft. of row; 75 to 100 lbs. of seed required to an acre.

PEA PRICES: 25 lbs. or more at 100-lb. rate.

EXTRA EARLY DWARF WRINKLED VARIETIES

American Wonder — 61 days

This variety heads the list of Peas in flavor and quality. The vines bear a great abundance of good-sized pods containing 5 to 8 large, exceedingly sweet, tender and well-flavored Peas. Require no brush or other support. Grow to a height of about 10 inches. **Pkt. 10c; ½ lb. 20c; 1 lb. 35c; 2 lbs. 50c; 10 lbs. $1.75; 100 lbs. $16.00.**

Little Gem — 65 days

Height 16 to 18 inches. It is a few days later than the American Wonder, but slightly larger and will bear for a longer period than other varieties. The Peas are green, wrinkled, of sweet, delicious flavor, and excellent quality. **Pkt. 10c; ½ lb. 20c; 1 lb. 35c; 2 lbs. 50c; 10 lbs. $1.75; 100 lbs. $16.00.**

Little Marvel — 62 days

An extra fine dwarf Pea of the early wrinkled variety, with vines growing to about 14 inches high. Pods are about 3 inches long of a dark green color. Peas are very sweet and tender. Especially suited for home gardens and early market gardening. **Pkt. 10c; ½ lb. 20c; 1 lb. 35c; 2 lbs. 50c; 10 lbs. $1.75; 100 lbs. $16.00.**

Nott's Excelsior — 62 days

A standard extra early dwarf wrinkled Pea. The foliage is stout and heavy, about 12 inches high with an abundance of pods containing 6 light green wrinkled Peas each. The Peas are unsurpassed in sweetness and quality and are very desirable for the home gardener. **Pkt. 10c; ½ lb. 20c; 1 lb. 35c; 2 lbs. 50c; 10 lbs. $1.75; 100 lbs. $16.00.**

Laxtonian Peas

LARGE EARLY WRINKLED VARIETIES

Laxton's Progress★

62 DAYS. One of the best large podded early dwarf varieties. Vines will average about 18 inches, pods 4 inches. Pods with 8 delicious peas are dark green. Matures early. **Pkt. 10c; ½ lb. 20c; 1 lb. 35c; 2 lbs. 50c; 10 lbs. $1.50; 100 lbs. $13.25.**

Laxtonian★

62 DAYS. A very early Pea of unexcelled value. It is not only early but is of splendid quality and unusually productive. **Pkt. 10c; ½ lb. 20c; 1 lb. 35c; 2 lbs. 50c; 10 lbs. $1.50; 100 lbs. $13.25.**

Thomas Laxton★

63 DAYS. Large podded, extra early Pea. The pods contain on the average seven or eight large, sweet, wrinkled Peas of the very richest flavor. The vines attain a height of from three to three and one-half feet. In flavor this Pea is unsurpassed. A very popular variety for the market gardener. **Pkt. 10c; ½ lb. 20c; 1 lb. 35c; 2 lbs. 50c; 10 lbs. $1.50; 100 lbs. $14.50.**

(Peas Continued on Next Page.)

PEAS—Continued

Gradus or Prosperity★ — 65 days

One of the earliest wrinkled sorts. The vines are very vigorous and robust, growing to a height of about 2½ feet. It is not only an abundant producer, but bears continually throughout the season. The pods are very large and are invariably well filled with from six to nine sweet, tender, wrinkled Peas of large size and delicious flavor. **Pkt. 10c; ½ lb. 20c; 1 lb. 35c; 2 lbs. 50c; 10 lbs. $1.50; 100 lbs. $13.25.**

World's Record — 61 days

An improved type of Gradus. 24 inches high, pods 4 inches long, medium green and very prolific. **Pkt. 10c; ½ lb. 20c; 1 lb. 35c; 2 lbs. 50c; 10 lbs. $1.50; 100 lbs. $13.25.**

Hundredfold★ — 63 days

This Pea resembles the Laxtonian but is a little larger and more prolific. Vines grow to a height of 16 to 18 inches, pods dark green, and containing 8 large dark green Peas of excellent quality. This is a very fine home garden Pea. **Pkt. 10c; ½ lb. 20c; 1 lb. 35c; 2 lbs. 50c; 10 lbs. $1.50; 100 lbs. $12.75.**

Inoculate Peas with NITRAGIN — The Original Legume Inoculator — Nobbe-Hiltner Process — Restores and Maintains Soil Fertility — **Increases the Quality and Yield Greatly.**

MAIN CROP VARIETIES

Telephone★ — 74 days

Another leading Pea with market gardeners. It comes into bearing fairly early, yields abundant crops of large, fine appearing pods and Peas that are sweet and luscious. The vines grow about 3½ to 4 feet in height. Each vine bears on an average seven to ten pods, which are ready for picking in about 75 days. The immense pods are straight, and of fine appearance, and contain eight to nine large, wrinkled Peas, closely packed, tender, sweet and of exquisite flavor. **Pkt. 10c; ½ lb. 20c; 1 lb. 35c; 2 lbs. 50c; 10 lbs. $1.50; 100 lbs. $12.75.**

Alderman★ — 74 days

This is a very large podded Pea, very robust and vigorous, producing pods of the largest size. The pods are even larger and longer than the average large podded sorts, and are well filled with large Peas of most excellent flavor. The vines are from 3½ to 4 ft. in height. **Pkt. 10c; ½ lb. 20c; 1 lb. 35c; 2 lbs. 50c; 10 lbs. $1.50; 100 lbs. $12.75.**

Teddy Roosevelt★ — 74 days

One of the best of the large dark podded Telephone types and one of the most productive and surest yielders. The vines grow to a height of 4 feet, producing in large numbers, large, well filled pods of a dark green color, each pod containing from 8 to 9 large wrinkled Peas of splendid quality. **Pkt. 10c; ½ lb. 20c; 1 lb. 35c; 2 lbs. 50c; 10 lbs. $1.50; 100 lbs. $12.75.**

Everbearing — 76 days

Reaches a height of 2½ to 3 feet. As name indicates this variety continues long in bearing and is very prolific. The Peas are very large green wrinkled and of excellent quality. Are tender and of superior flavor. One of the best for late summer and autumn use. **Pkt. 10c; ½ lb. 20c; 1 lb. 35c; 2 lbs. 50c; 10 lbs. $1.75; 100 lbs. $15.00.**

Mammoth Melting Sugar — 74 days

This variety is cooked up the same as a snap-bean, both pod and pea being eaten. The pods are large, extremely tender and fine flavored when young. **Pkt. 10c; ½ lb. 25c; 1 lb. 40c; 2 lbs. 75c; 10 lbs. $3.25.**

Carter's Daisy or Early Dwarf Telephone★ — 79 days

This Pea is always in great demand owing to its large pods and excellent quality. It is very desirable for early market, always obtaining top prices. Vines are very vigorous, reaching about 18 inches, with well filled pods. Vines require no support. **Pkt. 10c; ½ lb. 20c; 1 lb. 35c; 2 lbs. 50c; 10 lbs. $1.50; 100 lbs. $13.25.**

Peas are postpaid only in 10c packets. In half pound lots or more, add postage on mail orders.

PEPPERS

CULTURE. Seed should be planted in hotbed or greenhouse about March 10th to 20th. When plants are 3 inches high they should be transplanted to 2 or 3 inches apart until weather and soil conditions permit for outdoor planting. Then plant in rows 2½ feet apart and 18 inches apart in row. Cultivate same as tomatoes.

The vegetables best suited for market are indicated by a star (★) after the name of the variety.

Sunnybrook (Pimento Type)★ — 73 days

This is a bright red tomato-shaped pepper with thick, firm flesh. It is very sweet and exceptionally mild. It comes into bearing early and is very productive. **Pkt., 5c; oz., 40c; ¼ lb., $1.25; 1 lb., $4.00.**

California Wonder Pepper

California Wonder★

75 DAYS. A sweet pepper with very thick flesh. Fruit very large, smooth and heavy. A good yielder. It is blocky in shape, square in cross section, 4 inches wide and 4½ inches long. Some will weigh as much as a pound each. Is deep green when small, changing to crimson. **Pkt., 5c; oz., 50c; ¼ lb., $1.50; 1 lb., $5.00.**

Large Bell or Bull Nose★

62 DAYS. This is one of the early bell-shaped peppers. It is somewhat hotter than the larger and later varieties. Large Bell is very desirable for pickling. **Pkt., 5c; oz., 40c; ¼ lb., $1.25; 1 lb., $3.50.**

World Beater★

75 DAYS. One of the finest large peppers yet introduced. It is a cross between the Chinese Giant and Ruby King; fully as early as Ruby King and similar in shape, almost the size of Chinese Giant and far more prolific. Exceptionally mild, and can be eaten raw without fear of burning. Color of fruit is green at first, turning to a beautiful shade of scarlet. Flesh thick, which enables it to hold up a long time and makes it an excellent shipper. **Pkt., 5c; oz., 40c; ¼ lb., $1.25; 1 lb., $4.00.**

Harris Earliest★ — 55 days

Those who have difficulty in raising Sweet Peppers should try Harris Earliest as it is an extra early pepper and will mature in a very short season. Plants are very uniform in growth, dwarf and compact, seldom over 18 inches in height, and extremely productive. Fruits mild and sweet, similar to Bull Nose in form. A very fine pepper for the home garden. **Pkt., 5c; oz., 50c; ¼ lb., $1.50; 1 lb., $4.50.**

Windsor A★ — 57 days

All-America Award of Merit. A good stock of very early Ruby King type, with good yield of medium sized fruits. Recommended for Northern short season sections as a drought resisting, thick fleshed, early sweet pepper. **Pkt., 5c; oz., 50c; ¼ lb., $1.50; 1 lb., $5.00.**

Hungarian Yellow Wax — 65 days

A very hot pepper growing 5 to 7 inches in length tapering to a blunt point. The color is of canary yellow with waxy appearance. A heavy yielder. A favorite with many because of its pungency. **Pkt., 5c; oz., 50c; ¼ lb., $1.50; 1 lb., $5.00.**

Chinese Giant★ — 80 days

One of the largest of the mild red varieties, very thick and blocky. In spite of its large size, plants carry an enormous amount of fruit and mature early. Fruit can be sliced and eaten like tomatoes. Has few seeds. **Pkt., 5c; oz., 50c; ¼ lb., $1.50; 1 lb., $4.50.**

Crimson Giant or Ohio Crimson★ — 80 days

One of the best of the very large fruited sweet varieties. It grows as large as Chinese Giant but is earlier and more prolific. The peppers often measure 5 inches long, 3½ inches in diameter. The color is a deep green turning to a rich crimson when mature. **Pkt., 5c; oz., 50c; ¼ lb., $1.50; 1 lb., $5.00.**

Giant Magnum Dulce★ — 80 days

Is about 4 inches in diameter and 5 or 6 inches long. Is very mild, and can be eaten raw. **Pkt., 5c; oz., 50c; ¼ lb., $1.50; 1 lb., $4.50.**

PEPPERS—Continued

Harris Early Giant — 63 days
Is considered the earliest of the giant peppers. It is larger than the Ruby King but not as long and is a very good yielder. **Pkt., 5c; oz., 50c; ¼ lb., $1.50; 1 lb., $4.50.**

Long Red Cayenne★ — 70 days
Is about ¾ to 1 inch in diameter and 5 to 7 inches long. Although this also is pungent, it is not as sharp as the Small Cayenne. For pickling, either green or ripe. **Pkt., 5c; oz., 40c; ¼ lb., $1.25; 1 lb., $3.50.**

Neapolitan — 60 days
A very early and productive large variety. The fruit is oblong and has a light green color gradually changing to golden and finally to a bright red. Very mild and sweet. **Pkt., 5c; oz., 40c; ¼ lb., $1.25; 1 lb., $3.50.**

Oshkosh — 70 days
This is one of the earliest peppers, mild and exceptionally sweet. A very desirable, large variety. During growth it is an intense, deep glossy green, turning to a bright canary yellow at maturity. Fruits are smooth, without lobes, 4½ inches in diameter, broad at the base and tapering to an abrupt, blunt point. **Pkt., 5c; oz., 50c; ¼ lb., $1.50; 1 lb., $5.00.**

Small Red Cayenne★ — 70 days
Is only ½ inch in diameter and 4 to 4½ inches long. Is very hot, and used mostly in sauces. **Pkt., 5c; oz., 40c; ¼ lb., $1.25; 1 lb., $3.50.**

PUMPKINS

CULTURE. Pumpkins may be planted with corn by planting the pumpkin seed in every 4th or 5th row of corn one way by every 3rd or 4th row across, dropping 4 seeds in a hill. When raised alone, the hills should be 10 feet apart each way, dropping 6 or 7 seeds in a hill and cultivating both ways. Cultivate with a section of the harrow. One ounce of seed will make 15 hills, and about 2 pounds are needed for an acre.

Early Sugar or Pie★ — 118 days
This pumpkin is small, round, slightly ribbed, skin and flesh deep orange. Flesh is very thick, fine grained, sweet and of finest quality. A big yielder and a good keeper. One of the best for pies. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00.**

Winter Luxury Pie — 100 days
Round, medium in size with a golden yellow skin, closely netted. Exceptionally fine for pies and a good keeper. Flesh is thick, sweet, tender and of fine flavor. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00.**

Connecticut Field★ — 118 days
The standard field pumpkin. It is largely grown for stock feeding, but is also generally used for pumpkin pie and canning. The outside is reddish orange in color, the inside orange yellow. Is very solid, fine grained and slightly ribbed. Strong and vigorous grower. **Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 60c.**

Gould's Mammoth Field — 120 days
One of the largest and best, especially for stock feeding. It is also a good keeper. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. $1.00.**

SEED POTATOES

In selecting our stock of seed potatoes we endeavor to secure the best that money can buy. Some varieties are grown for us in the Red River Valley, while others are obtained in Wisconsin and Northern Minnesota.

We exercise the greatest care in sending out stock that is true to type, sound and free from disease, but still we would advise treating with Formaldehyde, Mercurnol, or Semesan-Bel before planting, as the soil you plant in may be previously infected.

Directions for treating potatoes with Formaldehyde to prevent scab and several other equally destructive potato diseases: Soak the tubers (before cutting) one and one-half hours in a solution made at the rate of one pound of Formaldehyde to thirty gallons of water, or for small quantities, 1 ounce to 6½ quarts of water. Then cut and plant as usual.

Treating Potatoes with Semesan-Bel
Special Semesan-Bel booklet, giving full information and instructions on the treatment of potatoes against disease, etc., will be sent on request. See Insecticide page for prices on Formaldehyde and Semesan.

Mercurnol. A simple, effective and economical treatment for seed potatoes to help eliminate infections of scab, blackleg and rhizoctonia. 1 quart of Mercurnol and 25 gallons of water, treats 40 bushels of potatoes. 1 pint, 70c; 1 quart, $1.25; 1 gallon, $4.25.

FERTILIZER. Most of our Minnesota Peat soil can be made to produce abundant crops if the proper fertilizers are applied. For potatoes, an application of 600 pounds of 0-9-27 to the acre, will give wonderful results; while on upland, we would recommend using 500 pounds to the acre of 4-8-6.

Early Ohio Red River Valley Stock
For early market it has no equal. It is a good keeper notwithstanding its earliness. This potato is in more demand than any other variety and can be depended on to give a uniformly good yield under almost all conditions and soils. Has a very smooth pinkish skin, shallow eyes.

Early Triumph
This is the earliest potato grown in many states. The size is from medium to small and almost round. The skin is red but the flesh is white and firm. It is a good keeper and a favorite with many as it is about 7 to 10 days earlier than the Ohio.

Green Mountain
The best late white potato, similar to the Rural New Yorker, but is a more oblong rectangular tuber. It is better suited to rich heavy soils than Rural New Yorkers as the tubers are not likely to grow hollow. Yields heavily even on poor soil. A popular variety in North Central and Northeastern Minnesota.

Irish Cobbler
It is a very early round white potato somewhat flattened with rather deep eyes, medium to large in size. The Irish Cobbler is a very vigorous grower and is not as liable to be diseased as other varieties. It is a heavy yielder and a good keeper, and especially well adapted to peat soils in Minnesota.

Warba
A new introduction by the Minn. Exp. Sta. Matures early; about 7 to 10 days earlier than Triumph or Early Ohio. Is a big yielder. Shape similar to the Triumph but larger. Tubers are round, blocky, white with pink eye.

Seed Potato Prices will be found on Special Field Seed Price List.

See Special List for Prices of Seed Potatoes.

Early Ohio Potato

Russet Burbank
One of the best potatoes for baking. Cooks up mealy and pearly white. Tubers are of good size, oblong with shallow eyes and netted skin. Very disease resistant. Produces a heavy crop but should be planted on rich ground.

White Gold
An early white potato of excellent flavor. Shaped similar to the Green Mountain with a very shallow eye but not quite so large. Matures a little later than the Early Triumph or Early Ohio, but about the same time as the Irish Cobbler. **See Special Field Seed List for prices.**

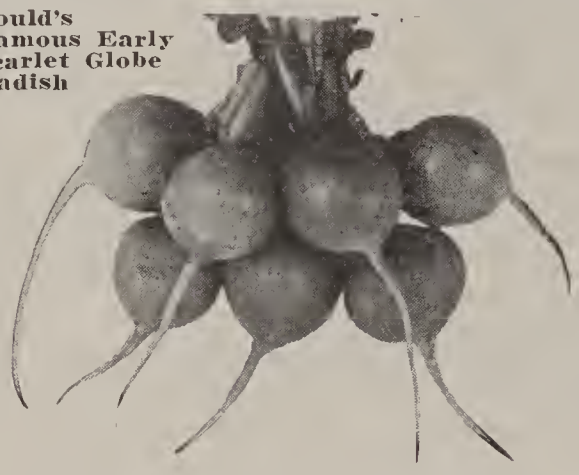
Chippewa
Another new late potato introduced by the U. S. Dept. of Agric. Is earlier than Green Mountain or Carman and a heavier yielder. It is a fine cooker with very shallow eyes. Shape is semi-round and somewhat longer than its width.

RADISH

CULTURE. Radish should be grown on good rich sandy loam. Avoid seeding in soil where you have had any root crop that became infested with root maggot, if possible. As a preventive of maggots it is well to treat your soil with a good dressing of tobacco dust, crude napthalene flakes, or Carbola. By using these preparations at intervals of about 10 days, you will be able to overcome maggots.

Plant your radish one-half inch deep in rows 12 to 14 inches apart as soon as the soil is in condition to work nicely in the spring. When the plants are about 1 inch high, thin enough to avoid crowding. Cultivate often and shallow to retain moisture and destroy weeds.

Gould's Famous Early Scarlet Globe Radish



EARLY ROUND RADISHES

Gould's Early Scarlet Globe★ — 23 days

A selected forcing strain especially adapted to greenhouse and hotbed growing, but may be grown outdoors also with good results. The shape is a little longer than round and the color, which it holds long after pulling, is very brilliant and attractive. A standard for the market gardener. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c; 2 lbs., $1.25; 10 lbs., $5.00; 100 lbs., $40.00.**

Gould's Scarlet Turnip White Tip★ — 26 days

A special strain of white tip radish, the best of its kind ever offered. It is very early and does equally well for greenhouse forcing and for outdoor culture. The flavor cannot be excelled, it being sweet, mild and crisp. The color is a bright scarlet with white tips, making a particularly fine appearance on the table. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c; 2 lbs., $1.25; 10 lbs., $5.00; 100 lbs., $15.00.**

Gould's Reliable Forcing★ — 21 days

Is the earliest of the greenhouse forcing type. It is of a beautiful bright scarlet, somewhat turnip-shaped, producing a very small top, very desirable for forcing. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c; 2 lbs., $1.25; 10 lbs., $5.00; 100 lbs., $45.00.**

Sparkler — 26 days

The roots, even when fully developed, are solid, crisp and sweet. The color is a rich carmine with a pure white tip. The tops are small, but large enough for bunching. Equally well adapted for forcing. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c; 2 lbs., $1.25; 10 lbs., $5.00.**

Yellow Ball — 35 days

A fine summer variety of quick growth. The root is a perfect globe shape with a golden yellow skin, while the flesh is pure white, very firm, mild and crisp. A good producer even in the hottest kind of weather. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c; 2 lbs., $1.25.**

LONG VARIETIES

Long White Summer or White Strasburg — 39 days

A large, medium long sort with heavy tapering shoulders. Flesh and skin pure white. Firm and crisp. A fine summer variety that resists drought. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c; 2 lbs., $1.35.**

White Icicle — 27 days

Matures long and slender radishes of pure white skin and flesh. Ready for pulling about three weeks after sowing. It is crisp, mild, sweet and tender both when young and until it attains a large size. One of the finest sorts for the home garden as well as for market. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c; 2 lbs., $1.35.**

French Breakfast — 25 days

A great favorite for open ground or forcing. Beautiful bright scarlet, with pure white tip. Oblong in shape, of medium size, and a rapid grower. It is a fine table variety due to its excellent quality and appearance. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c; 2 lbs., $1.35.**

Long Scarlet Short Top — 27 days

A standard and popular well known long red radish of good quality. Matures to a size of about 6 inches but it can be used before fully grown. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c; 2 lbs., $1.35.**

WINTER RADISHES

Try some this year. These grow to large size and keep well for winter and spring use. Sow seed from middle of June to July 1st, for fall and winter use.

China Rose — 52 days

Of a bright rose color, flesh solid and crisp. The shape is long, but stump rooted, tapering abruptly to a small tip. One of the best winter varieties. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c; 2 lbs., $1.35.**

California Mammoth White — 60 days

A very good fall and winter variety. The skin and flesh are white, very tender and crisp, decidedly pungent but well flavored. Roots are about 8 inches long. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c; 2 lbs., $1.35.**

Long Black Spanish — 60 days

One of the largest, latest, as well as the hardiest of all radishes. The shape is oblong, tapering to a point, the skin almost black, flesh white and very firm. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c; 2 lbs., $1.35.**

Round Black Spanish★ — 56 days

A large round turnip-shaped root, growing to as much as 3 to 4 inches in diameter. The skin is black, but the flesh is white and an excellent keeper. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 75c; 2 lbs., $1.35.**

RUTABAGA

American Purple Top★ — 88 days

A hardy productive variety with a small neck; roots are large globe-shaped with a very small tap root. The color is a bright yellow with a purple top, flesh solid, tender and sweet. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 60c; 5 lbs., $2.00; 100 lbs., $28.00.**

Neckless Purple Top★ — 84 days

Grows to large size. Flesh of a bright golden color. Top is purple and almost neckless. A very fine variety for table use. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 60c; 5 lbs., $2.00; 100 lbs., $28.00.**

N. K. & Co's. Prize Winner★ — 88 days

A purple top yellow-fleshed variety of good size and exceedingly uniform in appearance. Valuable for table use as well as for stock feeding. **Pkt., 5c; oz., 10c; ¼ lb., 30c; 1 lb., 60c; 5 lbs., $2.00; 100 lbs., $28.00.**

SALSIFY (VEGETABLE OYSTER)

Salsify is used the same as carrots, or, after having been boiled, make into cakes and fry like oysters, which they resemble in flavor. Culture of Salsify is the same as Parsnips. One ounce of seed will sow 60 feet of row. Five pounds of seed required for an acre.

Sandwich Island

Grows to a large size, is of fine quality and flavor. The roots, when cooked, are very palatable and nutritious with a flavor similar to oysters. A very desirable winter vegetable. **Pkt. 5c; oz. 15c; ¼ lb. 50c; 1 lb. $1.75.**

Long White French

A well known standard variety. The roots are long, white and smooth. A favorite market variety. **Pkt. 5c; oz. 15c; ¼ lb. 50c; 1 lb. $1.75.**

Rotate Your Crops

If you plant the same crop on the same piece of ground each year the soil becomes exhausted quicker than if you plant a different crop on this same soil. Also disease and insect pests multiply much faster on soil that has had the same crop, year after year. If you plant a root crop one year, do not plant another root crop on this same ground the next year.

SPINACH

CULTURE. Sow just as soon as the ground will permit working in spring. Sow in rows 12 inches apart and 1 inch deep. If given some protection over winter, spinach may be sown in the fall for spring use. Spinach being of a leafy growth only, should be kept growing fast in order to be tender and palatable. The soil should be well fertilized with a complete fertilizer. After the spinach is up it should receive a side-dressing of nitrate of soda or sulphate of ammonia about once a week until fit for market.

Bloomsdale or Savoy Leaved★ — 40 days

This is the quickest and earliest growing spinach. The leaves are narrow, pointed and crinkled and very hardy. **Pkt. 5c; oz. 10c; 1 lb. 35c; 2 lbs. 55c; 10 lbs. $2.00; 100 lbs. $18.00.**

Old Dominion Spinach

King of Denmark★ — 46 days

One of the earliest of the spinach varieties; noted for its ability to withstand very hot weather. Produces longer than most any other. **Pkt. 5c; oz. 10c; 1 lb. 35c; 2 lbs. 55c; 10 lbs. $2.00; 100 lbs. $18.00.**

Long Standing★ — 48 days

The leaves are smooth and very dark green. Grows quickly and remains tender a long time. One of the best for the market and home garden. **Pkt. 5c; oz. 10c; 1 lb. 35c; 2 lbs. 55c; 10 lbs. $2.00; 100 lbs. $18.00.**

Long Standing Bloomsdale★ — 46 days

Long Standing Bloomsdale has been developed along new and scientific lines of breeding. This strain of Bloomsdale is one of the outstanding varieties for crinkly leaf and long standing qualities. **Pkt. 5c; oz. 10c; 1 lb. 35c; 2 lbs. 55c; 10 lbs. $2.00; 100 lbs. $18.00.**

New Zealand — 70 days

Entirely different from the true spinach in type in that it thrives during hot weather in any soil. The tender shoots are of good quality and may be cut throughout the summer. Plant in rows about 3 feet apart. **Pkt. 5c; oz. 10c; 1 lb. 45c; 2 lbs. 75c; 10 lbs. $3.50.**

Old Dominion★ (Blight Resistant) — 40 days

A new blight resistant strain well adapted for any purpose for which Bloomsdale is seeded. Leaves are crumpled, dark green. **Pkt. 5c; oz. 10c; 1 lb. 35c; 2 lbs. 55c; 10 lbs. $2.00; 100 lbs. $18.00.**

Princess Juliana★ — 48 days

Of delicious flavor and quality. Leaves are large, crumpled and a rich dark green. Remains in good condition a long time before going to seed. A fine market variety. **Pkt. 5c; oz. 10c; 1 lb. 35c; 2 lbs. 55c; 10 lbs. $2.00; 100 lbs. $18.00.**

Round Thick Leaf — 45 days

A popular variety for spring and fall planting. Plants have large, long leaves, spreading out on the ground. Ends of leaves are pointed rather than round. **Pkt. 5c; oz. 10c; 1 lb. 35c; 2 lbs. 55c; 10 lbs. $2.00; 100 lbs. $18.00.**

Victoria★ — 48 days

A great favorite with the market gardener on account of slowness in shooting to seed. Grows low and compact. Leaves are shiny dark green and heavily crumpled. Suitable for spring and fall seeding. **Pkt. 5c; oz. 10c; 1 lb. 35c; 2 lbs. 55c; 10 lbs. $2.00; 100 lbs. $18.00.**

Virginia Long Standing★ — 40 days

Blight-resistant, with dark green crumpled leaves. **Pkt. 5c; oz. 10c; 1 lb. 35c; 2 lbs. 55c; 10 lbs. $2.00; 100 lbs. $18.00.**

Harlem Market★ — 45 days

A prickly seeded Spinach which resembles the Long Standing Bloomsdale Savoy. It is slightly earlier, and much hardier than any round seeded variety. **Pkt. 5c; oz. 10c; 1 lb. 35c; 2 lbs. 55c; 10 lbs. $2.50; 100 lbs. $22.00.**

TURNIPS

CULTURE. Turnips are the easiest to grow of any root crop. Sow in early spring for summer crop, and late in July or early August for late fall crop. One ounce will sow 200 feet in drill; thin to 4 inches apart.

Early White Model — 50 days

Is very early and perfectly formed. It is round, white, has short top and a single taproot. It is solid and sweet, very desirable for home garden. **Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 55c; 10 lbs. $4.50.**

Extra Early Purple Top Milan★ — 42 days

Extremely early and of splendid quality. Bulbs of medium size, flat and white, with a bright purple top. **Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 55c; 10 lbs. $4.50.**

Extra Early White Milan★ — 42 days

Similar to the Purple Top Milan, except that the roots are a solid clear white. **Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 55c; 10 lbs. $4.50.**

Golden Ball or Orange Jelly — 63 days

The best of the yellow fleshed turnips. The tops are small, roots medium size, round, smooth and deep yellow. The flesh is firm, crisp, and of fine quality. **Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 55c; 10 lbs. $4.50.**

Purple Top Strap-Leaved — 46 days

Rather flat and of medium size. Color: purple above ground and white below, flesh white, fine grained. **Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 55c; 10 lbs. $4.50.**

Purple Top White Globe★ — 58 days

A general favorite with all, and more largely grown than any other turnip; will do well to sow either broadcast or in drills and will form good sized bulbs in seven or eight weeks. Of a perfect globe shape with smooth white skin; flesh pure white, firm, sweet and crisp. **Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 55c; 10 lbs. $4.50.**

Snowball or Early Six Weeks★ — 43 days

Very early, round with pure white flesh. One of the best table varieties. **Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 55c; 10 lbs. $4.50.**

White Globe — 70 days

Perfectly globe shaped, skin white and smooth. **Flesh** is white and of very good quality. **Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 55c; 10 lbs. $4.50.**

VEGETABLE PLANTS

During the months of May and June we offer seedling or pot-grown vegetable plants in the most popular varieties. The plant season usually begins the forepart of May and extends well into June. We carry exceptionally fine plants and people who want better than the ordinary come to us from all over the Northwest for their plants. While we use every precaution and care possible in packing and forwarding plants, orders by mail are sent at purchaser's risk. However, we experience very little trouble in sending plants by mail. If you wish plants by the hundred or more, please write for price stating the kinds you want.

In ordering sent by mail, include 15% for postage and packing within the 3rd zone, with a minimum of 25c. Pot-grown plants sent by express must be crated, for which there is an additional charge of 40c a crate holding about 24 potted plants.

Cabbage. Early, Golden Acre and Copenhagen. Doz. 20c.
Cabbage Plants. Late, Holland. Doz. 15c.
Cauliflower Plants. Doz. 25c.
Celeriac (Root Celery). Doz. 25c.
Celery Plants. Doz. 20c.
Chives. Clump 15c, postpaid 25c.
Eggplant. Doz. 35c.
Ground Cherry (Husk Tomato). Doz. 35c.
Parsley Plants. Doz. 25c.
Tomatoes, include Gould's Standard, John Baer, Earlianna, Beauty, Bonny Best, Dwarf Champion, Stone, Ground Cherry, Yellow Plum, Ponderosa, Golden Ponderosa, Pritchard, etc. 35c per dozen.
Pot-grown plants are 50c to $1.50 a dozen.

SORREL

The leaves are csteemed as a salad or may be boiled and served like spinach. Sow in rows 18 inches apart. It is hardy and roots should be divided every 3 or 4 years. **Pkt. 10c; oz. 25c; ¼ lb. 60c; 1 lb. $2.00.**

SQUASH

CULTURE. Plant when all dangcr of frost is past. For vining varieties plant in hills 8 to 10 feet apart each way. The early summer or bush varicties may be planted 5 feet apart. Place 8 to 10 seeds in a hill one inch deep. When plants are three inches high thin to 3 or 4 in a hill.

Gould's Improved Hubbard Squash

SUMMER VARIETIES

Cocozelle or Italian Vegetable Marrow★ — 65 days

The fruit is long and slender, of a dark green color at first, but when maturing it changes to a lighter green with yellowish stripes. In bcst condition to use when 8 to 12 inches long. May be sliced and fried or bakcd. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 90c.**

Giant Summer Straightneck★ — 56 days

A selection of Summer Squash with a straight neck instead of the usual crookneck. It grows about 18 to 20 inches in length, is very thick meated and has a beautiful orange color. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c.**

Golden Summer Crookneck — 50 days

Early and prolific. The fruits are of true crookneck type, heavily warted and of light golden color. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c.**

White Bush Scallop — 53 days

Matures early and will bear quickly. The Squash are large size, somewhat flattened, pure white, with thick flesh of good quality. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c.**

WINTER VARIETIES

Mammoth Chili — 100 days

An extra large variety used mostly for stock feeding. Very beautiful in appearance, often weighing 75 pounds each. The yield will run from 8 to 10 tons per acre, producing a very cheap and nutritious feed. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 90c.**

Banana Squash — 105 days

One of the best varieties for cither summcr or winter use. Shell is grayish-green and the flesh is a deep golden color. Cooks smooth and of a delicious flavor. Fruits measurè 20 to 30 inches long, 7 to 12 inches thick. **Pkt. 5c; oz. 20c; ¼ lb. 45c; 1 lb. $1.25.**

Sweet Potato Squash — 55 days

Fruits grow 6 to 8 inches long. Have very thick flesh, unusually sweet and tender. They are a real table delicacy when baked and served with butter. **Pkt. 5c; oz. 15c; ¼ lb. 45c; 1 lb. $1.25.**

Buttercup

An introduction by Prof. Yeager of North Dakota. It is medium to small in size, the flesh is very thick and the flavor delicious. The shape is somewhat of a turban with a tendency to bcing flat. Seed cavity is very small. **Pkt. 5c; oz. 20c; ¼ lb. 45c; 1 lb. $1.25.**

Gould's Blue Hubbard — 110 days

A strain of the regular Hubbard. Fruit is large, blue-gray shell, long keeping and finest quality. A very popular variety on some of the eastern markets and becoming of increasing importance on the Twin City markets. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c; 10 lbs. $6.50.**

Table Queen★ — 58 days

A small Squash that is rapidly gaining favor as a market variety. Fruit acorn shaped, color dark green, size 6 inches long and 4 inches in diameter, of good quality. A fine variety for home or market garden. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c.**

Gould's Improved Hubbard — 105 days

This Squash is the favorite for long keeping. The vines are strong and very productive. The skin is rather smooth, of a dark green color. When well matured and dried, it becomes very hard and will keep well into the winter. Flesh is bright orange yellow, fine grained, dry, sweet flavored. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c; 10 lbs. $6.50.**

Chicago Warted Hubbard★ — 110 days

Very similar to Gould's Hubbard, but skin is darker and covered with heavy warts. Also a good keeper. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c; 10 lbs. $6.50.**

Turban — 100 days

This is somewhat of a novelty. It is turban shape, and the color varies from green and yellow to dark red. This can be shellacked and uscd as an ornamental Gourd. **Pkt. 5c; oz. 25c; ¼ lb. 70c; 1 lb. $2.50.**

TOBACCO

Sow Tobacco sced in greenhouse or hotbed in March or April and transplant to the open field whcn danger of frost is past. **Pkt. 5c; oz. $1.00.**

TOMATO

Break O' Day — 70 days

A wilt-resistant tomato developed by Dr. F. J. Pritchard of the U. S. Dept. of Plant Industry. Is nearly as early as Earliana and as productive as Marglobe. Fruits are large, smooth, meaty, red and globe-shaped. **Pkt. 5c; oz. 35c; ¼ lb. $1.00; 1 lb. $3.50.**

Livingston's Beauty★ — 84 days

One of the smoothest skinned and best of the large sorts. The vines are large, vigorous and very productive. The fruit is large, uniform in size and very smooth. The skin is purplish-pink and flesh is pink; very solid and finc flavored. A fine variety for medium early or for main crop. A splendid sort for slicing. **Pkt. 5c; oz. 35c; ¼ lb. $1.00; 1 lb. $3.50.**

Stone★ — 86 days

This is one of the most popular of the late varieties. It is a good late canning tomato and is grown in some sections as a market garden variety. The plants are strong and vigorous and produce a heavy yield of fruit where the growing season is long. The fruit is bright red in color, of good size, smooth, round, meaty and fine flavor. **Pkt. 5c; oz. 45c; ¼ lb. $1.50; 1 lb. $4.50.**

Marglobe★ — 77 days

A fine blight resistant tomato produced under the direction of Dr. F. J. Pritchard of the United States Bureau of Plant Industry. The plants are very disease resistant. It produces immense yields of handsome deep red globe-shaped tomatoes, of good size with a flavor that is a happy medium between the acid and non-acid sorts. The shape and size make this a very desirable salad or slicing tomato. **Pkt. 5c; oz. 35c; ¼ lb. $1.00; 1 lb. $3.50.**

Crimson Cushion or Beefsteak — 90 days

Is very large, round, with bright scarlet skin, solid flesh of fine quality and seed cells small. Plants are very prolific. **Pkt. 5c; oz. 50c; ¼ lb. $1.60; 1 lb. $4.50.**

Oxheart — 90 days

Fruit is large and very solid with few seeds. It is heart-shapcd, the skin pink, and the flavor delicious. Used for second early and main crop. **Pkt. 5c; oz. 60c; ¼ lb. $2.00; 1 lb. $6.00.**

TOMATO—Continued

CULTURE. Tomato seed should be planted in a box in the house or in hotbeds or greenhouse about the 1st of March, then transplanted once or twice to develop the roots to a good size before setting out in the open. Do not set out until all danger of frost is passed, as tomatoes are easily damaged by frost.

Tomato Plants listed on page 19.

Gould's Early Standard Tomato—Reduced in Size
Note its very meaty appearance

Gould's Early Standard★ 68 days

Gould's Early Standard Tomato is the result of many years of experimenting to obtain a meaty, heavy bearing tomato, that would produce early and continue to bear fruit until frost.
It has no equal for the home garden or for market, being an excellent keeper and shipper, fruit being firm, coloring beautifully, producing abundantly from early summer till frost. Flavor is unsurpassed. Unexcelled for canning. No expense has been spared to make Gould's Early Standard the best tomato grown anywhere. **Pkt. 15c; ⅛ oz. 75c; ¼ oz. $1.25; ½ oz. $2.00; oz. $4.00.**

October 20, 1938.
I picked 1,160 ripe and 1 bushel of green tomatoes from 12 Gould's Standard tomato plants which I purchased from you this spring. Best of all, the quality of Gould's Standard tomato is the best of any variety I have ever tried.
Edw. Bigglestone, 771 No. Pascal Ave., St. Paul.

John Baer★ 70 days

Is considered one of the best early tomatoes grown. Fruit is smooth, uniform in size, nearly round, firm and of excellent quality. Will hold up well for shipping. It is a heavy bearer that will last all summer. A favorite with market gardeners, shippers and canners. **Pkt. 5c; oz. 35c; ¼ lb. $1.00; 1 lb. $3.50.**

Pritchard★ (Scarlet Topper) 73 days

This variety introduced by the U. S. Dept. of Agriculture, is from their experiments, the most perfect disease, wilt and rust-resisting tomato. The fruits are scarlet, large, globe-shaped and very attractive. Pritchard matures as early as Bonny Best and is highly recommended for both home and market garden. **Pkt. 5c; oz. 50c; ¼ lb. $1.60; 1 lb. $4.50.**

Earliana "Private Stock"★ 63 days

The result of many years' selection from the most perfect and earliest stock. Produces more uniform fruit of a smooth, perfect shape than any other early variety. **Pkt. 15c; ⅛ oz. $1.00; ¼ oz. $1.75; ½ oz. $3.00; oz. $6.00.**

Spark's Earliana 66 days

One of the very earliest sorts. Fruit of fair size, color bright scarlet. A prolific bearer, yielding fruit in clusters, particularly in warm sandy soil. **Pkt. 5c; oz. 35c; ¼ lb. $1.00; 1 lb. $3.50.**

Rutgers★ 72 days

This is an introduction by the New Jersey Agricultural College. It is especially adapted for market gardeners. The flesh being firm and sparkling red, maturing about the same time as Marglobe. **Pkt. 5c; oz. 35c; ¼ lb. $1.00; 1 lb. $3.50.**

Dwarf Champion 86 days

Dwarf and compact in habit. Stands up well even when loaded with fruit, having a stiff, bushy stem. May be planted close together making it desirable for small gardens. The fruit is of a purplish pink color, medium size, smooth, very attractive and fine flavored. Skin is tough and flesh solid, but has no hard core. **Pkt. 5c; oz. 45c; ¼ lb. $1.50; 1 lb. $4.50.**

New Penn State Tomato

Bonny Best★ 73 days

A very popular second early variety. Ripens a few days later than Earliana. Vines are vigorous, prolific, fruit red, solid, medium in size, smooth, small core and very uniform in size and color. A very popular variety for early market and also a good home garden tomato. **Pkt. 5c; oz. 35c; ¼ lb. $1.00; 1 lb. $3.50.**

New Penn State★ 65 days

Originated by Dr. C. E. Meyers of the Agricultural Experiment Station of Pennsylvania after seven years of breeding work. The plant is vigorous and yet compact with heavy foliage to protect from sun scald. It is as early as the Earliana and of much better quality. **Pkt. 10c; oz. $1.00; ¼ lb., $3.00.**

Ponderosa 88 days

This is the largest fruited tomato. It is solid with very small seed cells, of very fine quality for slicing. Some of the fruit is oblong in shape and somewhat ribbed. The color is purplish red. The vines are strong and if staked will grow to a height of 6 or 7 feet. **Pkt. 5c; oz. 50c; ¼ lb. $1.60; 1 lb. $4.50.**

Golden Ponderosa 89 days

A large golden-yellow tomato, in shape very much like the Red Ponderosa. The vines are vigorous and bear right up to frost, fruits very uniform in size and shape that contain very few seeds. **Pkt. 5c; ½ oz. 60c; oz. $1.00.**

SMALL FRUITED TOMATOES

Ground Cherry or Golden Husk

86 DAYS. These are greatly valued for preserves or for making pies. Fruit is very sweet and mild in flavor. **Pkt. 5c; oz. 50c; ¼ lb. $1.50.**

Italian Large Plum 75 days

This is a bright red plum shaped tomato. The fruit is borne in clusters of six or more. It is very prolific and is used extensively for salads and preserves. **Pkt. 5c; oz. 50c; ¼ lb. $1.50.**

Yellow Pear 75 days

Fruit is pear shaped, slightly larger than the Yellow Plum, of clear yellow color. **Pkt. 5c; oz. 50c; ¼ lb. $1.50.**

Yellow Plum 75 days

A small yellow fruited variety, finely flavored, resembling a plum in size and form. Used mostly for preserving. **Pkt. 5c; oz. 50c; ¼ lb. $1.50.**

"GARDEN HUCKLEBERRY" OR WONDERBERRY
Not a true huckleberry, but belongs to the tomato and pepper family. The fruit is deep purple, nearly black, round and slightly smaller than a Concord Grape. Plants, 3 feet. Culture same as tomatoes. Pkt. 5c.

ANNUAL FLOWER SEEDS

CULTURE SUGGESTIONS FOR FLOWER SEEDS

Flower seeds should not be planted out before ground warms up. Before planting, soil should be worked up and enriched with fertilizer. This is very important and will make a wonderful difference in your plants. Do not sow your seeds when ground is wet. A good rule is to cover seeds four to six times their diameter, which means that some varieties need merely to be pressed into the soil. Most seeds are planted too deeply. Press the earth firmly around the seed when planting. As plants come up, thin out to prevent crowding. Place supports around tall-growing varieties so that they will not be damaged by wind and rain.

Starting Indoors. In order to get earlier flowers and a longer blooming season, a number of annuals such as Antirrhinum or Snapdragon, Carnations, Celosia, Lobelia, Pansies, Petunias, Salpiglossis, Stocks, Verbenas and others had best be started indoors, or in cold frames.

Abronia (Sand Verbena)

A charming trailing succulent plant that delights in dry, poor soil and sunny situation. A rapid grower for baskets, window boxes or rockeries. Its Verbena-like heads of fragrant flowers of bright rose with white center bloom in summer and fall. **Umbellata.** Pkt. 5c.

Acroclinium (Everlasting)

Acroclinium, Double Hybrids.

Plants about 15 inches high bearing lovely white or rosy pink flowers, which when cut in the bud state, can be dried and used in winter bouquets. Mixed colors. Pkt. 5c.

New Large Flowered Double Hybrids. Greatly improved over the old variety. The flowers are twice the size of the ordinary strain, on 12 to 18-inch stems, borne freely over a long flowering period. Colors are salmon, apricot, pink, rose, cerise, white and cream. Mixed colors. Pkt. 10c.

Agathea (Blue Daisy)

Agathea.

An old greenhouse plant, 1 to 2 feet, with roundish ovate opposite leaves and an abundance of sky-blue, daisy-like flowers. Use for bedding in a protected place, also fine for house plant. **Coelestis.** Pkt. 5c.

Ageratum

A half hardy annual of easy culture, especially adapted for borders and bedding as it is literally covered with clusters of feathery blossoms from early summer until frost.

New Ageratum Fairy Pink. A dwarf compact plant of a delightful soft salmon rose-pink color. Begins blooming when 2 inches high, at its maximum height of 5 inches, forms a solid compact mass of blooms. Pkt. 25c.

Blue Ball. Dwarf Compact. Deep dark blue, 9 in. high. Pkt. 5c, 1/16 oz. 15c.

Blue Cap. Dwarf Compact. Miniature. 6 inch. Pkt. 5c.

Blue Perfection. Semi-dwarf. 8 inches high. Pkt. 5c, 1/16 oz. 15c.

Little Blue Star. Flowers open light blue with purple center. 4 in. Pkt. 5c.

Mexicanum Blue. 18 in. high. Pkt. 5c.

FLOWERING PLANTS

During May and June we offer seedling flowering plants in the most popular varieties. Weather conditions determine just how early plants are ready, but the plant season usually begins the forepart of May and extends well into June. In ordering sent by parcel post include 15% for postage and packing within the third zone, with a minimum of 15c. Flowering plants are 30c a dozen. **If you wish 100 or more of any one variety, please write us for quantity price. We also have Geraniums, Pansies, Cannas, Vinca Vines, Daisies in baskets and pots for the window box or garden.**

Anagallis (Pimpernel)

Dwarf plants 6 to 8 inches tall, with blue or red flowers. Bloom freely all summer. Flowers close at the approach of bad weather. Very effective for edgings, rockery or in pots. Does best in a sunny location. **Grandiflora,** mixed colors. Pkt. 5c.

Alyssum, Sweet

For borders, edging and rock work, we recommend a liberal use of this dainty little flower. It will keep blooming well into November here in the Northwest, and will stand many severe freezes.

Little Gem. Of dwarf compact habit, only 4 inches high. Plants start blooming very early and flower from spring until late in the fall. One of the easiest grown and most pleasing white flowered plants for border. Pkt. 5c, ⅛ oz. 15c, ¼ oz. 25c, ½ oz. 35c, 1 oz. 50c.

Carpet of Snow (Procumbens). A new variety, 2 to 3 inches high, pure white flowers that bloom so freely that the plant has a snow-like appearance all summer. Of spreading habit. Pkt. 5c, ⅛ oz. 20c, ¼ oz. 30c, ½ oz. 40c, 1 oz. 60c.

Sweet Alyssum (Maritimum). Of creeping habit, 9 in. Fragrant white flowers bloom all summer. Pkt. 5c.

Lilac Queen. A very pretty dwarf plant growing about 6 inches high, of deep lavender-lilac color. Pkt. 5c, ⅛ oz. 20c, ¼ oz. 30c, ½ oz. 40c.

Minimum. A very dwarf plant, only 2 to 3 inches high, with white flowers. Pkt. 5c.

Amaranthus

Brilliant foliaged annuals used as centers of large beds or for borders of tall plants. Give plants plenty of room. Grow 3 to 5 feet high. Mixed. Pkt. 5c.

Anchusa (Cape Forget-Me-Not)

A rare annual, grows 2 feet high, blooming all summer. It resembles a large beautiful Forget-Me-Not of deep blue color. Thrives in shade. Pkt. 5c.

Arctotis (African Daisy)

Arctotis Grandis

A handsome new annual, forming a branching bush 2 to 3 feet high. Its flowers are large and showy, being pure white on the upper surface, the reverse of the petals being a pale lilac blue. Blooms from early summer until frost. **Grandis,** Lilac. Pkt. 5c.

Hybrids, showy daisy-like flowers, in beautiful autumn shades. Pkt. 15c.

Antirrhinum (Snapdragon)

Antirrhinum, Rust Proof.

This wonderful group of the newest creation in Giant Snapdragons far surpasses anything yet introduced. They grow 2 to 3 feet high; much larger than the half-dwarf and with still larger flowers, closely placed on the stem. Plant or thin to 9 inches apart. For early blooms, sow indoors in March and set out in the open after all danger of frost is past. Seed in the open about May 1st for late blooming.

Apple Blossom. Rosy pink, white tube.
Canary Bird. Canary yellow.
Cattleya. Orchid lavender.
Copper King. Velvety bronze copper.
Golden Queen. Rich golden yellow.
Jennie Schneider. Salmon-pink.
Old Gold. Rich old gold.
Orange King. Golden orange.
Purple King. Deep glowing purple.
Ruby. Velvety ruby-red.
Snowflake. Pure white, yellow lip.
The Rose. Deep rose pink.

Each of above, Pkt. 10c.

All colors mixed. Pkt. 5c.

Antirrhinum, Nanum Grandiflorum, Guinea Gold. Winner of Silver Award in the 1939 All-America Selections. A striking plant of glowing bronzy orange with yellow throat flowers. Bush 12 to 18 inches. A grand garden Snapdragon. Not rust-resistant. Pkt. 25c.

Grandiflorum Rust Proof. In some sections of the country Antirrhinums cannot be grown on account of the rust which attacks the foliage. These new rust-proof varieties now assure success. We consider this strain equally fine for border, cutting and florists' use. Crimson, white, pink, copper shades, salmon-pink, or mixed. Pkt. 10c.

New Majestic, Half Dwarf. The latest development in Snapdragons. Produces flowers on massive hyacinth-like spikes 18 to 24 inches, but bushy, well rounded plants. Mixed colors. Pkt. 10c.

Asters

Aster Early Giant, Wilt-Resistant, Light Blue. A Silver Medal winner in the 1939 All-America Selections. Delightful clear blue, extremely large flowered, early bloomer. Pkt. 25c.

Queen of the Market. Wilt R.

About two to three weeks earlier than most other Asters; bloom profusely and are of graceful habit. The perfect flowers are borne on long stems and in great variety of colors, making them very desirable for cut flowers. 15 to 18 inches high.

Crimson, Blush Pink, Dark Blue, Light Blue, Scarlet, Flesh Pink, White or Mixed .....Pkt. 10c

Improved Crego Giant Comet

Aster Crego Giant

This fine Aster grows over 2 feet tall and is well branched; of free, sturdy growth. The fluffy graceful flowers resemble the Chrysanthemum in form and are rarely less than 3 inches across.

WILT RESISTANT

Crimson, Azure Blue, Dark Violet, Deep Rose, Orchid, Shell Pink, White or Mixed. Pkt. 10c

Single Chinensis. Wilt R.

Plants 2 to 2½ feet, flowers daisy-like, petals wide and closely placed. Showy plants. Dark Blue, Lilac, Scarlet, White, Mixed .....Pkt. 10c

Asters—Continued

Improved New Giant California Sunshine

This fascinating new Aster will bloom in mid-season with flowers 4 to 5 inches across, composed of a single row of loosely placed outer petals which contrast with the unique yellow quill-like center disc. Plants, 2 and 3 feet high. Salmon-Pink, Lavender, Purple, Rose, White or finest Mixed.....Pkt. 10c

Hearts of France. Wilt R.

The best Red Aster ever introduced. Medium size flowers open ruby-red and color deepens with age. Plants are 1½ to 2 feet tall, of branching type and very robust, Begin to bloom early and flowers retain their beauty for a longer period than most Asters...Pkt. 10c

Early Beauty. Wilt R.

Early Beauties flower from early July until frost. The plants are from 2½ to 3 feet, with long, stout stems bearing large flowers. Crimson, Purple, White, Azure Blue, Deep Rose, or Mixed. Pkt. 10c.

Aster Beauty

American or Vick's Late Branching

This superb strain produces plants 2 to 3 feet high, bearing on long strong stems their handsome chrysanthemum-like flowers which, under ordinary cultivation, average 4 inches across. The large, fluffy blooms are double to the center, of exquisite form and delicate color.

WILT RESISTANT

Crimson, Light Rose, Purple, Azure-Blue, Pink. White or Mixed....Pkt. 10c

Improved Giants of California

The flowers are much larger than the Improved Crego, measuring 5 to 6 inches in diameter and are unsurpassed as cut flowers. Their immense size and beauty, as well as their long and sturdy stems make them very attractive. Plants, 2½ to 3 feet. Mixed colors, double.....Pkt. 10c

Golden Sheaf. Wilt R.

The deepest Yellow Aster yet offered, and the only Yellow Aster that is wilt resistant. The flowers are fully double, with an attractive crest-like center, of good substance and fine depth of petal. Plants, 2 feet tall.....Pkt. 10c

Ball. Wilt R.

Bright deep Rose, early.....Pkt. 10c
White, large flowers, late.....Pkt. 10c
White, medium early.....Pkt. 10c
Deep bright purple, early.....Pkt. 10c

King or Needle Type. Wilt R.

Flowers large and full, with needle-like petals. Finest mixed.....Pkt. 10c

Early Royal, Wilt R.

Plants branching, 1½ to 2 feet, blooming directly following the Queen of the Market. Azure Blue, Deep Rose, Salmon Rose, Scarlet, Deep Purple, White or Mixed.....Pkt. 10c

Lilliput Flowered Aster

Plants, 14 to 16 inches, producing abundant small flowers, fine for cutting. Finest Mixed.....Pkt. 10c

Imbricated Pompon Aster

Plants upright, 14 to 16 inches, small round pompon flowers, outside row short guard petals, very early. Fiery Scarlet, Light Blue, Rose, White or finest Mixed.....Pkt. 10c

Bachelor's Button (See Centaurea Cyanus)

Balsam (Lady Slipper)

Showy and easily grown tender annuals, succeeding best in sunny locations where there is rich loam. We offer very large, extra double flowers in several colors and shining green foliage. Bloom from July to October. 18 inches high. Mixed colors. Pkt. 5c.

Bartonia Aurea (Blazing Star)

Very showy hardy annuals producing golden yellow flowers during the summer above its gray and downy thistle-like foliage which is exceedingly brilliant in the sunshine. Blooms measure 2½ inches across. Sow it where it is to remain as it does not bear transplanting. Prefers moist situation. Fine for border. 12 to 18 in. high. Pkt. 5c.

Beans, Scarlet Runner

The well known rapid growing annual climber, producing bright red flowers from July to September. The foliage being dense, makes it splendid for porches or wherever shade is desired. Following the flowers, it bears long pods of fine flavored but somewhat stringy green beans for eating. Vines grow about 10 feet. Pkt. 5c; ¼ lb. 15c; ½ lb. 25c; 1 lb. 45c.

Brachycome (Swan River Daisy)

Brachycome Swan River Daisy.

A dwarf, free-flowering plant which makes a very attractive border. Blooms in great profusion for several weeks in summer. The daisy-like flowers are blue and white, plants about 9 to 12 inches tall. Mixed colors. Pkt. 5c.

Browallia Elata

Pretty, free-flowering, half hardy annual suitable for summer bedding. The white or blue flowers during summer and autumn are fine for cutting. Lift and cut back in the fall for house plant. 12 to 15 inches high. Mixed. Pkt. 5c.

Cacalia (Tassel Flower)

An attractive bedding plant about 18 inches tall bearing tassel-like orange and scarlet flowers on long, wiry stems. A good cut flower. Blooms from June to frost.

Mixed. Pkt. 5c.

Cacalia.

Calliopsis

Calliopsis Dwarf

Showy and free-flowering annuals, blooming all summer. Excellent for cutting. You will prolong the blooming season by keeping old flowers cut off. Sow where they are to remain and thin to 8 to 12 inches apart. Of easy culture. **Tall mixed.** 24 to 30 inches. Pkt. 5c. **Dwarf mixed.** 6 to 10 inches. Pkt 5c.

Calendula

Free flowering plants of easy culture, succeeding everywhere and flowering continuously. The flowers are double, showy, of large size and pleasing colors. Height, 15 to 18 inches.

Mixed colors. Pkt. 5c; ⅛ oz. 15c; ¼ oz. 25c.
Balls Gold. Dark golden yellow flowers of erect habit, long stems. Pkt. 5c.
Balls Orange. Immense double flowers of a brilliant glistening orange, borne on long stems. Pkt. 5c.
Apricot Queen. Soft Apricot, Shaded Orange, dark eye. Pkt. 5c.
Balls Masterpiece. Long stemmed, deep orange, brown center. Pkt. 5c.
Balls Supreme. Orange, dark center. Pkt. 5c.
Bodger's Pastel Bedding Mixture. A combination of the dwarfer growing types. Many new shades of apricot, cream and white are included, as well as the better known orange and lemon. Lovely for border. Pkt. 5c.

Calendula, Chrysantha.

Orange Shaggy. Winner of a Gold Medal in the 1935 All America Selections. Deep orange in color, this new lacinated petaled type has an exceedingly graceful and informal appearance, excellent for both garden and cutting. Pkt. 5c.
Campfire, Improved. One of the best early forcing varieties. Flowers are dark orange, high lighted with a scarlet sheen. Pkt. 5c.
Jewel. This new Jewel is one of the finest introduced in the past few years. The flowers are a deep orange and rounded. Plants are semi-dwarf and free flowering. Fine for bedding and cut flower use. Pkt. 5c.
Chrysantha. Is distinct in type, outstanding among all varieties known up to the present time. The large double flowers are an exquisite shade of clear yellow. Ideal for cutting. Pkt. 5c.
Orange Sunshine. Similar to Chrysanthea excepting color which is a clear light orange. The double flowers are fine for cutting. Pkt. 10c.
Golden Radio. Improved golden yellow, quilled petals. Pkt. 5c.
Radio. Deep orange, quilled petals. Pkt. 5c.

Canary Bird Vine

A quick climbing tender annual of the nasturtium family. Blossoms have curiously winged light yellow petals. Does well in the shade. Grows 10 to 15 feet in a season. Pkt. 5c.

Candytuft

Showy branching plants for edging or to fill in empty spaces in the garden. Desirable for cut flowers. Blooms 8 weeks from sowing and until frost. Plants grow from 12 to 18 inches high and succeed in any light airy place. Do not plant closer than 6 inches apart, but 8 inches is better.

Hyacinth Flowered. White. Pkt. 5c.
Empress White. Pkt. 5c.
Crimson. Pkt. 5c.
Rose Cardinal. Pkt. 5c.
Lavender. Pkt. 5c.
All colors, mixed. Pkt. 5c; ⅛ oz. 15c; ¼ oz. 25c.
Little Prince. Immense spikes of snow-white flowers borne in great profusion on dwarf sturdy plants, only 6 inches high. Fine for borders. Pkt. 5c.

Canterbury Bells (Annual)

After many years of experimenting, an Annual Canterbury Bell has been developed that will bloom from seed in less than six months. The plant grows 2 to 2½ feet tall, each plant having from 6 to 8 spikes of bloom. We offer mixed packets only, of the following colors: Pink, rose, dark blue, light blue and white. **Mixed colors.** Pkt. 10c.

California Poppy (Eschscholtzia)

This is the state flower of California. The beautiful and brilliant poppy-like flowers produced on a low-growing and finely-cut silver foliage will bloom freely from spring until frost. Seed must be sown where they are to remain. Plants are about 12 inches tall.
Hybrida Grandiflora Mixed. Pkt. 5c.
Aurantiaca. Orange, spreading type. Pkt. 5c; ⅛ oz. 15c; ¼ oz. 20c.
Double Golden Glory. Golden Glory with its glorious profusion of golden yellow flowers deepened at the center with orange, is showiest of all California Poppies. Pkt. 10c.
Golden West. Yellow orange center. Pkt. 5c.
Lovely. Carmine rose, suffused salmon. Dwarf. Pkt. 5c.
Ramona Hybrids. Flowers are beautifully frilled and incurved. Finest mixed. Pkt. 10c.

Double California Poppy.

Canna

Cannas can be grown from seed if planted early. Seed germinates irregularly in two to four weeks. 2½ to 4 feet. **Mixture from newest varieties.** Pkt. 5c.

Cardinal Climber

This is a very attractive, rapid growing climber attaining a height of 25 feet, with deep cardinal-red flowers and fern-like foliage. Flowers are about one inch in diameter and are borne in clusters five to seven blooms each, from mid-summer till frost. Does best in a sunny situation and rich soil. Pkt. 5c.

Carnation

Marguerite. These carnations bloom in about five months after sowing. The flowers are of brilliant colors, ranging through many beautiful shades of red, pink, white, and variegated. About one-half the blossoms are extremely double, while balance are partly double and single. Most beautiful for cut flowers and very fragrant. Seeds should be sown indoors in February and transplanted to the open when all danger of frost is past. Height, 18 to 20 inches. All colors mixed. Pkt. 10c.
Engleman's Perpetual Gold Medal. This select strain is seed from plants, the flowers which won the Sweepstake prize at the Chelsea Show in 1925. They throw better than 80% double flowers. At approach of frost, plants may be brought in for winter blooming. 18 inches. Finest mixed. Pkt. 25c.

ROCK GARDENS, by F. F. Rockwell. Brief, clear descriptions and numerous drawings show just how you can build a rock garden yourself at small cost. The book tells what locations are best, how to construct, and what to plant. 31 illus., 86 pages, postpaid $1.35.

Castor Oil Bean (Ricinus)

Ornamental plants of stately growth and picturesque foliage, with brilliant colored blossoms, producing a tropical effect. It thrives in rich well drained sandy or clay loam, but is not suited for stiff clay or very sandy soil. Fine for massing in lawns or as a flower bed center.
Borboniensis Arboreus. Very large and beautiful. The foliage is light green, height 12 to 15 ft. Pkt. 5c.
Red Spire. The shapely bushy plants attain a height of about 6 feet, with large palmate leaves of a bronzy green with prominent red ribs and veins. The numerous large seed spikes are a brilliant rosy crimson. Pkt. 5c.
Sanguineus. Blood red stems with green foliage. Growing to a height of 5 to 6 ft. Pkt. 5c.
Zanzibariensis. The ornamental leaves of a variety of colors beautifully lobed, are 2½ to 4 ft. across. Each plant makes a perfect pyramid of foliage thickly set from top to bottom. Height 10 to 12 ft. Pkt. 5c.
All Varieties Mixed. Height 5 to 12 ft. Pkt. 5c; ½ oz. 15c; 1 oz. 25c.

Celosia Childsii (Chinese Woolflower)

Plants grow 2 to 3 feet high; the bloom starting early with a central globular head which reaches an immense size. Many branches are thrown out, each bearing a wooly-like ball of scarlet. These blooms of scarlet balls will continue to multiply and enlarge until killed by frost. Pkt. 5c.

Celosia Cristata (Cockscomb)

Freely flowering annuals of easy culture, producing large comb-like heads. Does better in light soil that is not too rich.
Tall, mixed, 24 to 30 in. high. Pkt. 5c.
Dwarf, mixed, 8 to 12 in. high. Pkt. 5c.

Celosia Plumosa (Feathered Cockscomb)

These are extra fine in groups, similar to the Cristata in habit of growth. Blossoms are slender, of a feathery appearance. Height, 18 to 24 inches. Mixed. Pkt. 5c.

Celosia Plumosa.

Lilliput Celosia (Ostrich Plume)

Form compact plants with numerous feathery spikes which resemble ostrich plumes. Very showy plants. Height 12 inches.
Heatherdell Golden Feather. Yellow. Pkt. 10c.
Heatherdell Fiery Feather. Red. Pkt. 10c.

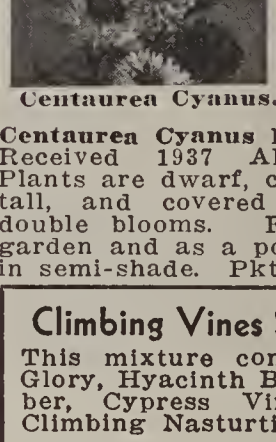
Chrysanthemum

Chrysanthemum, Annual Single

Annual varieties. These are showy and effective garden favorites. Extensively grown for cut flowers. The foliage is ornamental and finely cut. The single varieties grow 12 to 24 inches high, and produce on long stems large flowers resembling the daisy, but of many bright colorings in distinct bands or rings. Flowers June until frost.
Finest single mixed.....Pkt. 5c
Finest double mixed.....Pkt. 5c

Flowering Plants
During the months of May and early June we offer daily many thousands of annual seedling flower plants.

Centaurea Cyanus (Double Bachelor's Button or Cornflower)



Centaurea Cyanus.

Produces a mass of very attractive flowers in many colors. It is a very hardy annual and reseeds itself from year to year. Make sowings at intervals of three weeks apart beginning in early May. Plants 18 to 24 inches high.
Lavender, ruby, maroon, rose, blue, white or mixed. Pkt. 5c.
Blue or mixed, ¼ oz. 15c; ½ oz. 25c; 1 oz. 35c.
Centaurea Cyanus Dwarf Jubilee Gem. Received 1937 All-America Award. Plants are dwarf, compact, about 1 ft. tall, and covered with vivid blue, double blooms. Fine for rockery, garden and as a pot plant. Does best in semi-shade. Pkt. 10c.

Climbing Vines Special Mixture

This mixture consists of Morning Glory, Hyacinth Bean, Wild Cucumber, Cypress Vine, Kudzu Vine, Climbing Nasturtiums, etc. Pkt. 5c.

Centaurea Imperialis (Sweet Sultan)

This is without a doubt the most beautiful of all Centaureas. The beautiful, sweet scented, artistic-shaped flowers are borne on long, strong stems, and when cut will stand for days in good condition. The plant itself is much stronger than any other Sweet Sultan. It is of easy culture and one of the best annuals for cut flowers. Blooms all summer. Height, 15 to 24 inches.
Finest mixed .....Pkt. 5c

Chorizanthe Palmeri (Turkish Rugging)

A new subject for the border or rock garden. This easily grown annual forms a dense mat of statice-like flowers of a delicate pink which blends beautifully with the dull green foliage. In early fall the plant changes to a charming shade of autumn brown. 8 inches high, with a spread of 12 to 18 inches. Pkt. 10c.

Clarkia Elegans (Double)

Clarkia Elegans.

Bright and attractive annuals of easy culture. The long graceful sprays are valuable for table decoration. They thrive in sun or shade, growing 2 to 2½ feet high, with masses of double flowers and buds which will all open in water when cut. Blooms July and August. Bright carmine, fiery carmine, deep rose, orange scarlet, orange, shading to pink, purple, salmon pink or mixed colors. Pkt. 5c.

Cleome (Spider Plant)

Showy and interesting because of the long purple spidery stamens and showy rose-colored petals. Does well in sandy soils and sunny situations. A good bee plant. The airiness of the Cleome lends a touch to the garden which nothing else gives. Blooms until late. 3 to 5 ft. **Rose Queen.** Pkt. 5c.

Cobaea Scandens (Cathedral Bells)

One of the handsomest and most rapid growing of the annual climbers. Climbs twenty to thirty feet in a season. The flowers are bell shaped, white or blue color. Should be started indoors. Blue, white or mixed colors. Pkt. 10c.

Coix Lachryma (Job's Tears)

An ornamental grass with broad leaves and shiny, pearly-like beads. Height from 30 to 40 inches. Plant early in the spring, four or five seeds in a hill, one-half inch deep, at a distance of 12 or 15 inches apart. Pkt. 5c.

Coleus

Hybridus Choice Mixed. Plants with richly colored foliage. 6 to 24 inches. Pkt. 10c.

Convolvulus (Rock Garden Annual)

Very fine plant for the rockery or hanging baskets. Grows 6 inches high, flowers blue with white throat. Blooms all summer. **Mauritanicus.** Pkt. 10c.

Cosmidium (Golden Yellow)

Plants grow two feet tall and produce a succession of blooms all summer. Flowers are golden yellow with a broad circle of rich orange around the disc. Pkt. 5c.

Cosmos

The Cosmos is one of the most attractive of the autumn flowering annuals. Its graceful flowers borne on long stems, rising above the feathery foliage, are very desirable for cut flowers, lasting for a week or more in water. It is a very prolific bloomer and if the plants are given enough space to develop well, will branch freely, every shoot being covered with a mass of lovely flowers. Cosmos is very effective for inter-planting with early blooming perennials.

Gould's Extra Early Cosmos is the earliest of its kind, growing to a height of about 4 feet and if seeded in the open as soon as the soil is in condition, or transplanted from plants after all danger of frost, Cosmos will bloom from July until frost.

White, Pink, Crimson or mixed..Pkt. 5c
Mixed, ¼ oz. 15c; ½ oz. 25c; 1 oz. 35c.

Sensation. All-American 1936 winner. Flowers are pink and white, 4 to 6 inches across. For best show, leave plants 3 to 4 feet apart and disbud for exceptional flowers on long cutting stems. Plants 3 to 4 ft. tall. Rose-pink, white or mixed. Pkt. 10c.

Cosmos, Sensation

Sensation Cardinal (New). Cosmos identical to the pink and white excepting for the crimson color. Pkt. 25c.

Early Klondyke Orange Flare. Grand Champion Gold Medal 1935 All-American Selections. Orange Flare has proven itself worthy of this honor. The long stemmed flowers of bright vivid orange are freely borne on 2 to 3-foot, well shaped plants which have sparse growth of light green foliage. If plants are started indoors it will flower in sixty to seventy days after setting out. Pkt. 10c.

Cosmos, Extra Early Double Crested

The double flowering Cosmos has caused many exclamations of admiration from those who have seen them for the first time. This strain will bloom about seventy-five per cent in doubles.

They grow to a height of about three feet, forming a perfect bush massed with blooms, bearing beautiful flowers on long stems. They bloom in seventy days from seed when sown in the garden, and will continue until frost. Crimson, pink, white or mixed. Pkt. 10c.

Cuphea Firefly

A new, dwarf, compact plant, about 10 inches high recommending itself for rockery, window boxes, flower pots, border or edging. The delicately formed flowers of fiery, cerise red color are freely produced, from mid-summer on. A tender annual. Start indoors for early blooms. Pkt. 15c.

Cynoglossum (Chinese Forget-me-not)

An annual of easiest culture forming strong plants about 18 inches high, producing sprays of flowers delicately scented through the summer. **Amabile.** Blue, pink or mixed. Pkt. 5c.

Cynoglossum, Firmament. Received Bronze Medal in the 1939 All-American Selections. A new dwarf type of Chinese Forget-me-not of rich blue color, 15 to 18 inches high and bushy. Easy to grow. (See rear cover page.) Pkt. 25c.

Cypress Vine

One of the most popular annual climbers. It has a delicate fern-like foliage and produces a mass of beautiful star shaped flowers. Grows from 10 to 15 feet a season. Mixed white and scarlet. Pkt. 5c.

Dahlia Seed

Growing Dahlias from seed is very interesting and wonderful blooms are obtained the first season if seeds are started indoors and transplanted out about May 15th to 20th. Some of the seeds may come up in a few days, while others may not for months. As seedlings make about two leaves, transplant into a three-inch pot or small container until danger of frost is over when they can be set out in the open. Height, 18 to 36 inches.

Single or double mixed.....Pkt. 10c
Cactus Flowered, finest mixed. Pkt. 10c
Unwins Dwarf Giant Flowered. Pkt. 10c
Coltness Hybrids, very dwarf, for bedding. Pkt. 10c.

Dianthus or Pinks

One of the most popular flowers producing a great variety of brilliant colors in a profusion of bloom. The double varieties are nearly as nice as Carnations for cutting. The annual varieties may be sown in the open when danger from frost is past and will bloom from early summer until frost. 12 to 15 inches high.

Single Dianthus

Chinensis (China Pinks). Large, double flowers in a variety of colors. Pkt. 5c
Double Diadem Pinks. Finest mixed colors. Pkt. 5c.
Plumarius (Grass Pink). Double, semi-hardy, free flowering. Finest mixed. Pkt. 5c.
Heddewigi (Pinks). Large single flowers. Mixed colors. Pkt. 5c.
Heddewigi. Large double flowers, mixed colors. Pkt. 5c.
Heddewigi Laciniatus Splendens. One of the newest additions, single flowers over two inches across. A brilliant shade of crimson with large glistening white eye. Plants, 6 to 8 in. Pkt. 10c.
Double Annuals. Mixed colors. Pkt. 5c.
Single Annuals. Mixed colors. Pkt. 5c.
Hardy Garden Pinks. Will come up year after year if winters are not too severe. Mixed colors. Pkt. 10c.

Dianthus, Rock Garden Pinks

Suitable for rockery or any other hot, dry spot. Are of easy culture and will thrive in any well drained sunny location.

Caesius (Cheddar Pink). Very compact in growth, rose colored fragrant flowers in May. Varies from 4 to 10 inches in height. Pkt. 5c.

Deltoides (Maiden Pink). A beautiful little plant, bearing a profusion of small crimson flowers during June and July. 6 inches high. Pkt. 5c.

Scoticus (Scotch Pink). An old garden favorite, single pink flowers in June, very fragrant, 6 to 8 in. high. Pkt. 5c.

Cyclops. Large single flowers, pink and rose shades, 15 inches. Pkt. 5c.

Didiscus Coeruleus (Blue Lace Flower)

A very attractive light blue or lavender flower produced on long stems. Very fine for cut flowers, and a continuous bloomer. A lovely plant for the garden. 24 to 30 in. high. Pkt. 5c.

Dimorphotheca (African Daisy)

A rare and extremely showy annual Daisy which blooms freely under ordinary climatic conditions. The plants grow about 15 inches high producing an abundance of daisy-like flowers, the greater part of the summer and fall.

Aurantiaca (Orange). Blossoms a unique rich orange gold. Pkt. 5c.

Aurantiaca Mixed. They vary in color from white to red, and various tints of yellow, orange and salmon. Pkt. 5c.

Salmon Beauty. Soft salmon pink. Pkt. 5c.

Ringens. Flowers are large, pure white with blue zone. Pkt. 5c.

Ecklonis. Pure white, deep blue disc, reverse side lavender. Pkt. 10c.

Dimorphotheca.

Dolichos (Hyacinth Bean)

A rapid growing and free blooming annual climber. Very ornamental for covering trellises, arbors and porches. Makes a very beautiful combination when interplanted with scarlet runner beans, giving a variety of color. Sow in the open after danger of frost or sow early indoors and transplant outside later. Grows about 10 feet a season. Purple, White or Mixed. Pkt. 5c.

Echinocystis—See Wild Cucumber Vine

Eschscholtzia—See California Poppy

Everlastings

A get acquainted collection of selected everlasting flowers. 1 to 4 feet tall. Mixed. Pkt. 5c.

Four O'Clocks (Marvel of Peru)

A popular old garden favorite, growing to a height of about 2 feet. Forms small tree-like bushes about 1½ feet through, which are covered with Morning Glory-like flowers of white, yellow, pink, orange and red, from July to October. Flowers open about 4 o'clock in the afternoon, remaining open until about noon of the next day. Make an attractive hedge plant. Colors: Red, Rose, White, Yellow or Mixed. Pkt. 5c; ½ oz. 15c; 1 oz. 25c. Dwarf mixed, 1 ft. Pkt. 5c. Tall, Striped mixed. Pkt. 5c.

Cut-Flower Mixture

This is a special mixture of hardy annuals in a good variety of color, that will produce a continuous succession of beautiful cut flowers from early summer until late in the fall. Pkt. 5c.

Single Gaillardia.

Gaillardia (Blanket Flower)

Very beautiful plants and remarkable for the profusion, size, and brilliancy of its flowers, blooming from early summer until frost, and often as late as November, here in the Northwest. Fine for cut flowers. 12 to 18 inches high. Single or double mixed. Pkt. 5c.

Indian Chief. Single, bronzy red. Pkt. 10c.

Gaura

A graceful plant, 3 feet high, with strong, leafy stems, bearing numerous spikes of white flowers flushed with pink, from July until frost. Easily grown from seed. Prefer light soils, sunny situation. **Lindheimeri.** Pkt. 5c.

Gilia

These delightful flowers are rapid growers and fine for cut flowers.
Capitata (Queen Anne's Thimble). Charming and attractive bushy plants of erect habit and fine feathery foliage, blooming all summer. May be dried and used as an everlasting. Lavender. 1½ to 2½ feet tall. Pkt. 5c.
Liniflora Bunch of Lilac. 1 ft. Pkt. 10c.
Micrantha Fairy Stars. Tiny daisy-like flowers in rose, pink, orange, yellow, cerise and cream. Use for rockery or bedding. Plants, 6 to 8 inches high. Mixed colors. Pkt. 10c.

Globe Amaranth (Gomphrena)

An attractive Everlasting that produces an abundance of clover-like blossoms in many attractive colors. Flowers can be dried and used for winter bouquets. 15 to 18 inches high. Pkt. 5c.

Godetia

An attractive annual which is deserving of more general cultivation. The plants do best in poor soil and partly shaded. The flowers are of satiny texture in many colors, blooms resembling single Hollyhocks, flowering from June to October.
Tall, 18 to 24 in. Mixed colors..Pkt 5c
Dwarf, 10 in. Mixed colors....Pkt. 5c
Sybil Sherwood. A gorgeous salmon pink, softened by an edging of white. The most beautiful Godetia yet introduced. 20 inches high. Pkt. 10c.

Ornamental Gourds

Gourds (Ornamental)

Gourds grow luxuriantly and are very useful for covering arbors, fences and stone walls. The fruits they bear are very ornamental and keep well. They come in many shapes and forms. Sow the seed in hills 3 feet apart and allow 3 plants to grow in each hill.
Large mixed. Pkt. 5c.
Small mixed. Pkt. 5c.
Large and small, mixed. Pkt. 5c.
Warted, all shapes. Pkt. 5c.
Turks Turban. Small. Pkt. 5c.
Calabash, Penguin or Pipe. Pkt. 5c.

Gypsophila (Bridal Veil or Baby's Breath)

Flowers a few weeks after sowing. Its graceful panicles of dainty blossoms and feathery foliage are unequaled for making up bouquets. Sow at intervals during the summer for continuous blooming. 18 to 24 inches high. White. Pkt. 5c; ½ oz. 15c; 1 oz. 20c. Pink. Pkt. 5c. Carmine. Pkt. 5c. Mixed. Pkt. 5c; ½ oz. 15c; 1 oz. 20c.

Helichrysum (Straw Flower)

Pretty Everlasting flowers in beautiful colors, many soft and artistic shades. Splendid for winter bouquets. To preserve them cut the flowers before they are fully expanded and hang heads down in a dry place. Grow 15 to 24 inches high. Mixed colors. Pkt. 5c.

Helianthus (Sunflower)

Hardy annuals of sturdy growth, remarkable for the size and brilliancy of the flowers which are very useful for cut flowers. Effective in forming background of large beds or borders and for distant effect.
Extra Dwarf Chrysanthemum Flowered. 3 feet. Double golden yellow flowers. Pkt. 5c.
Dwarf Maroon Prince. 4 feet. Single, best red. Pkt. 5c.
Miniature. 5 feet. Golden yellow, small flowers. Pkt. 5c.
Stella. 5 feet, large flowered. Pkt. 5c.

Heliotropium (Heliotrope)

A half hardy perennial flowering during the whole season. A splendid bedding plant about 18 inches high. Its delightful perfume makes it most desirable for bouquets. Start indoors or plant seed in open in May. Makes a fine house plant for winter. Colors mostly to various shades of lavender. Pkt. 10c.

Heterophyllia (Mex. Fire Plant)

Annual Poinsettia resembling in habit and color the hothouse Poinsettia. About mid-summer the center top leaves of each branch turn orange scarlet, presenting a striking appearance. Is of branching bush-like form. 2 to 3 feet high. Pkt. 5c.

Hollyhocks (Annual)

A comparatively new class of Hollyhocks. Blooms the first year from seed, when sown in April or May. The soil should be very rich, deeply dug, and during dry weather watered liberally. Height, 4 to 5 feet.
Semi-double or single, mixed. Pkt. 5c.
Indian Spring. Received second highest award in the 1939 All-America selections. Blooms in five months from seed, with secondary blooms developing in side shoots after main flowering stem is cut away, the same season. It has semi-double to double fringed flowers in shades of pink on 4 to 5-foot plants. (See rear cover page.) Pkt. 25c.

Humulus Japonicus (Japanese Hop)

One of the most rapid climbers grown. Seed may be sown in the open ground in spring and the plants will grow to an enormous size in a very short time. The foliage is luxuriant and is one of the best plants for covering verandas and trellises. Leaves are beautifully marked with white, yellowish green and dark green. It is very hardy and not affected by heat, drought, or insects. Height 10 to 20 feet. Pkt. 5c.

Hunnemannia

Giant Yellow Tulip Poppy or Bush Eschscholtzia. The best of the poppy family for cut flowers, remaining in a fresh condition for several days. Produces an abundance of brilliant yellow, tulip-shaped flowers from July until frost. 15 to 20 inches high. Pkt. 5c.
Sunlite. A semi-double poppy of bright canary yellow, on a bush of light gray green. Plants 2 feet. Pkt. 10c.

Ice Plant (Mesembryanthemum)

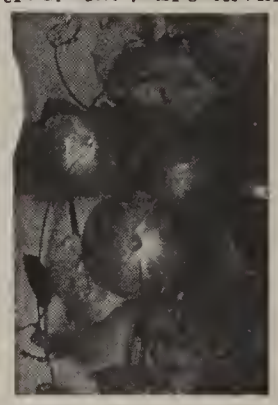
Dwarf trailing plant, prized for its singular icy-like foliage. The white and pink flowers and leaves appear to glisten with dew or crystal beads. Likes dry, sunny situation. About 6 inches tall. **Crystallinum.** Pkt. 5c.

Kaulfussia

An excellent annual, 6 to 12 inches high, bearing intense blue daisy-like flowers in mid-summer. Does best in sun. **Amelloides,** deep blue. Pkt. 5c.

Ipomoea (Morning Glory)

Climbers of rapid growth, with beautiful and varied flowers; for covering walls, trellises, arbors or stumps of trees they are invaluable. Grow about 20 feet.



Imp. Heavenly Blue Ipomoea.

When growing Ipomoeas especially Heavenly Blue, plant in a dry sandy location and never apply fertilizer. Do not sow outdoors until ground is thoroughly warmed.

Heavenly Blue Improved. Similar to the old Heavenly Blue, but easier to grow and vines do not make such rank growth. Flowers much earlier and remain open until late in the afternoon. Color is a deep intense blue, shading lighter toward the center. Pkt. 10c; ⅛ oz. 20c; ¼ oz. 30c.

Clark's Earliest Heavenly Blue Morning Glory. Flowers sky blue, shading golden yellow in throat. Bloom early. The sparse foliage is heavily covered with lovely flowers. Pkt. 5c; ⅛ oz. 20c; ¼ oz. 30c.

Scarlett O'Hara (1939 All-America Gold Medal). The outstanding new flower this year. Received the only Gold Medal All-America Award in two years. Flowers are a rich wine red, blooming 65 days after seed is sown. Flowers are not quite as large as Heavenly Blue. (See rear cover page.) Pkt. 35c.
Cornell. Honorable mention in the 1939 All-America selections. Large flowered intense carnelian red with pure white border. Rapid grower, flowers early when vines are 2 feet tall and until frost. Pkt. 25c.

Double Rose Marie. We are offering this new, early free flowering double form of Ipomoea. Flowers are a beautiful shade of deep rose of double and semi-double form. A novelty. Pkt. 10c.

Imperialis Japanese Morning Glory. The flowers are of gigantic size, and the colorings range from snow-white to purple with all the intermediate shades. Pkt. 5c; ½ oz. 15c; 1 oz. 25c.

Noctiflora (Moonflower). Covered with large white flowers every evening and cloudy days. Seed should be started in March or April indoors. Pkt. 5c.

Tall Mixed Morning Glory. One of the most free flowering and rapid growing climbers, thriving in almost any situation. The flowers are brilliant and beautiful. Pkt. 5c; ½ oz. 10c; 1 oz. 15c.
Dwarf Mixed. 10 to 12 in. high. Pkt. 5c.

Kochia

Kochia (Summer Cypress or Mex. Fire Bush)

Sow thinly in spring. Soon forms a cypress-like hedge of lively green and of perfect symmetry, 2 to 3 feet high. The color of entire plant changes to a deep red in autumn. Pkt. 5c; ½ oz. 10c; 1 oz. 15c.

Lace Flower (See Didiscus)

Lantana

A tender perennial plant with Verbena-like flowers in shades of white, red, orange and yellow. Flowers have a very fragrant perfume. Grow in pots and set out in summer. Blooms until late in the fall, 15 to 20 inches high. Dwarf Hybrids, mixed colors. Pkt. 10c. Hybrids, mixed. Pkt. 10c.

Lavatera (Annual Mallow)

Showy plants, 2½ feet in height, producing large cup-shaped flowers from mid-summer until frost. White, rose or mixed. Pkt. 5c.

Larkspur, Tall Double Stock Flowered (Giant Imperial)

These annual Larkspur are among our showiest garden flowers. The flower spikes of various shades are among our finest for cut flowers. Spring-sown seed will produce flowers from July until frost. Larkspur are very effective planted among other garden favorites, or among shrubbery. They thrive in almost any soil but do better in a sunny situation. Height, 3 feet.

Larkspur, Giant Imperial.

Azure Blue
Carmine Rose
Coral Pink
Dark Blue
Deep Rose on Salmon
Delicate Lavender
Rose Pink
Salmon Rose
Soft Pink Shaded Salmon
Scarlet
White, Rich Red
Each Above or Mixed Colors. Pkt. 5c.

Dark Blue or Mixed Colors. ⅛ oz. 20c; ¼ oz. 35c.

Rosamond (Double Stock Flowered). New, a pure bright rose color, holding the pure rose color until out of flower. A rare beauty. Pkt. 5c.

Linaria (Miniature Snaps)

Gold Medal Winner 1934 All America Selections. The free flowering plants are very compact, about 8 inches in height, covered with a mass of dainty Snapdragon-like flowers in all the popular pastel shades.

Fairy Bouquet. Pkt. 10c.

Linum (Crimson Flax)

One of the most effective and showy bedding plants, growing to a height of 18 to 24 inches. Flowers are a brilliant scarlet. Bloom from May until October by successive sowing. Pkt. 5c.

Lobelia (Crystal Palace Compacta)

Charming little ball shaped, bushlike plants covered with a profusion of deep blue flowers. On account of its evenness of growth it makes an excellent plant for use in edging or bedding. Also for pot culture. 4 inches high. Pkt. 10c.

Mrs. Clibran. Deep blue, white eye. Pkt. 10c.

Lupinus (Lupine)

These garden favorites are among the most beautiful and few annuals give such a glorious display in the garden as do Lupinus. The long and graceful spikes of pea-shaped flowers make fine cut flowers. The glossy foliage makes a most charming background for the flower spikes. Blooms during July and August. Plant in partly shaded place. Height about 2 feet.

Hartwegi. White, Blue, Rose, Mixed. Pkt. 5c.

Try Vigoro in your flower garden. You will be amazed at the vitality your plants will show and the most wonderful blooms you will get.

Marigolds (Tall Varieties)

These old garden favorites are of easiest culture. The French and Dwarf grow 12 to 18 inches high, while the African and other tall varieties grow 2 to 4 feet.

Early Sunshine. Bronze medal winner in the 1939 All-America selections. A very early and dwarf strain of Dixie Sunshine, especially adapted for our northern sections. Plants about 24 inches tall and bushy, covered with lemon or sulphur yellow flowers. Pkt. 25c.

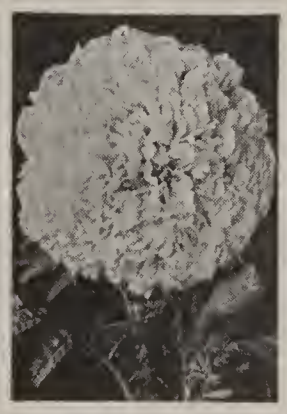
Burpees Red and Gold Hybrids (new). The only large Red Marigold in existence. Earliest of all Marigolds, blooming less than 8 weeks from seed. Plants are 1½ ft. tall, 2 ft. wide. Flowers vary from pure golden yellow to rich mahogany scarlet, according to season. Profuse bloomers all summer. Pkt. 25c.

Golden Glow. Honorable Mention in the 1939 All-America Selections. Bright, golden yellow flowers resembling the familiar old perennial, Rudbeckia Golden Glow. Grows 2½ inches across. 2½ ft. plants bloom in 17 weeks from seed. Entirely odorless foliage. Vigorous and free blooming. Pkt. 25c.

Spanish Gold (new). Honorable Mention in the 1939 All-America Selections. Plants grow 20 inches high and 30 inches wide; in full bloom the entire top and sides are covered with 3-in. golden orange flowers. Start indoor. Begins to bloom in 20 weeks. Pkt. 25c.

Crown of Gold

Marigold Colorette Crown of Gold. The outstanding flower and Gold Medal All-America Winner for 1937. Odorless foliage and no B. O. Fragrant flowers of orange bloom early. Plant in full bloom has the appearance of solid orange on top with green base. Plants grow 2 feet tall. Pkt. 10c.



Marigold Sunset Giants.

Marigold Gigantea Sunset Giants. A prominent horticulturist has said that a flower to be desirable in the home garden must have one or more of three outstanding characteristics: very showy, or fragrant, or of exceptional size. Marigold Sunset Giants has all three. Foliage and flowers have a definitely sweet fragrance. Flowers will average 5 inches, plants usually from 3½ to 4 feet high. Colors range from orange, yellow and primrose. Mixed, Pkt., 10c.

Marigold Guinea Gold.

Guinea Gold. A carnation-flowered type of Marigold that produces nearly 100 per cent semi-double flowers. Plant grows 2 to 2½ feet high on which are produced 30 to 40 flowers, 2 to 2½ inches across, of a brilliant shade of orange, flushed with gold. Practically odorless. Pkt. 5c.

Yellow Supreme. Gold Medal Winner 1935 All America Selections. A companion to the popular Guinea Gold. Flowers are a creamy lemon yellow and somewhat larger than Guinea Gold; plants 2 to 2½ feet. Pkt. 5c.

African Beauty Strain. Special mention 1935 All America Selections. Beauty Marigolds produce flowers that are flat in appearance, as contrasted to the ball-like effect of other sorts. The petals are semi-quilled, rather broad, with flowers very double. Plants 2½ feet high, flower early.

Golden Beauty, golden yellow. Pkt. 5c.
Yellow Beauty, lemon yellow. Pkt. 5c.

African (Tall). Plants grow 2½ feet high and produce an abundance of large double flowers in great profusion of glowing colors from mid-summer on. Do best in a sunny situation.
Improved Orange Ball. Pkt. 5c.
Improved Lemon Ball. Pkt. 5c.
Mixed. Pkt. 5c.

Tall Golden Emblem. Large flowers measure 4 to 5 inches in diameter. Color is mid-shade between lemon and orange. Plants 2½ feet. Pkt. 10c.

Marigold Dwarf Varieties

Marigold Dwarf Royal Scot, All Double. Special mention in the 1937 All-America Flower Winners. Of dwarf French type, 12 to 15 inches tall, large and rather flat flowers, brown and gold irregularly striped. Plants of uniform height and long blooming. Pkt. 5c.

French Marigold

French Marigold (Dwarf). Dwarf compact plants 10 to 15 inches high, very attractive, covered with hundreds of small bright flowers of various colors. Few annuals are as effective or flower over so long a period. Double or single mixed. Pkt. 5c.

Dwarf French Double Harmony. (New.) A charming and distinct novelty in Marigolds. The scabiosa-like formation with tubular deep orange center petals is flanked by broad velvety dark maroon-brown outer petals. Plant about 12 inches high. Pkt. 5c.

Monarch Strain. (Dwarf French Double.) Of compact growth, flowers in combinations of orange, bronze, yellow and mahogany. Pkt. 5c.

Legion of Honor. A single flowering Marigold, compact bushes 9 inches high. Flowers golden yellow, with maroon at base of each petal. Blooms from June until frost. 10 in. Pkt. 5c.

Robert Beist. Attractive dwarf, double mahogany-red flowers. Plant grows about 12 inches high. Pkt. 5c.

Marvel of Peru—See Four O'Clocks

Matricaria (Feverfew)

Matricaria

The plant is covered with numerous and freely branching flower stems, which are literally covered with very double flowers, resembling a button Chrysanthemum.

Capensis (Feverfew). Small, double white flowers grow on plants 3 feet tall. Pkt. 5c.

Matthiola Bicornis (Evening Scented Stock)

An old-fashioned little annual, with a delightful perfume which its purplish lilac flowers give out in the evening. Grows 12 inches high. Pkt. 5c.

Mignonette Reseda

A well known fragrant plant. Can also be grown indoors, in pots for winter use. Sowings made in April and again in July will keep up a succession of bloom from early summer until frost. Grows 10 to 16 inches high.

Sweet Seented. The old-fashioned variety with small spikes, but the most sweetly scented of all. Pkt. 5c; ½ oz. 15c; 1 oz. 25c.

Speelal Mixture Large Flowering Sorts. Pkt. 5c.

Mignonette.

Mimulus

Moschatus (Musk Plant). Trailing plant for damp shady places. Fine for rockery. Small yellow flowers. 6 inches. Pkt. 10c.

Tigrinus (Monkey Flower.) Dwarf bushy plants 1 foot high with large Gloxinia-like flowers of white, yellow, gold, pink, red and maroon. Does best in partial shade. 12 inches. Pkt. 10c.

Nasturtiums

The maximum of bloom is produced in dry, gravelly or sandy soil. Water freely until plants are established. It is best to pick the blossoms almost daily. Dwarf varieties grow to a height of 12 to 15 inches; the tall, 6 to 10 feet.

Reliable Dwarf mixed varieties. Pkt. 5c, oz. 10c, ¼ lb. 35c.

Lobb's Climbing, mixed colors. Pkt. 5c, oz. 10c, ¼ lb. 35c.

Reliable Tall mixed varieties. Pkt. 5c, oz. 10c, ¼ lb. 35c.

Double Nasturtium, Sweet Scented

Orange Gleam. Flowers are very large, uniformly double and profusely free flowering, while the color is a deep glowing golden orange, with a deeper shading at the center. Plants are semi-dwarf, bearing the flowers well above the light green foliage on long wiry stems. Pkt. 5c; oz. 15c.

Nasturtium, Dwarf Double Golden Globe

Golden Gleam. The large, golden-yellow flowers average two and one-half to three inches across. They are borne on erect stiff stems six inches in length. Pkt. 5c; oz. 15c.

Scarlet Gleam. The flowers are a flery orange scarlet, blooms almost 3 inches across, and very fragrant. Pkt. 5c; oz. 15c.

Mahogany Gleam. Dark mahogany red. Pkt. 5c; oz. 15c.

Cerise Gleam. Beautiful salmon cerise. Pkt. 5c; oz. 15c.

Salmon Gleam. Similar to Golden and Scarlet excepting color which is a delicate golden salmon. Pkt. 5c; oz. 15c.

Gleam Hybrids. Are a collection of gorgeously colored, large double flowers of dazzling beauty in colors of salmon, golden yellow, orange scarlet, cerise, cream yellow, orange crimson, and gold flushed scarlet. Pkt. 5c; oz. 15c.

Dwarf Double Golden Globe. Identical in color with the popular Golden Gleam. Uniformly dwarf and compact. It is very free flowering, and the well formed double flowers of deep golden yellow are very sweet scented. Pkt. 5c.

Bodgers Dwarf Double Gem Mixture. Plants are dwarf and compact, totally without runners. The good-sized sweet scented double flowers cover the plants in an excellent color range. Makes an ideal plant for border and edging use. Pkt. 5c.

Mimosa (Sensitive Plant)

A curious and interesting annual with pinkish white flowers. Leaves close and droop when touched or shaken. 1½ feet high. Pkt. 10c.

Nemesia

These bushy plants grow only 6 to 8 inches high but bear continuously, brilliantly colored flowers of red, orange, crimson, cream, scarlet and rose lipped with other colors. Does best in cool situation and partial shade. Compacta. Mixed colors. Pkt. 10c.

Nemophila (Baby Blue Eyes)

A splendid annual 6 to 12 inches high of easy culture. Flowers all summer if planted in cool, shaded locations. Insignis Blue, 6 in. Pkt. 5c.

Nicotiana (Tuberose Flowered Tobacco)

Delightfully sweet-scented, tubular flowers, blooming continually from July to October. Grows 2 to 3 feet high. Do well in partly shaded places.

Affinis. Crimson, pink, white or in mixed colors. Pkt. 5c.

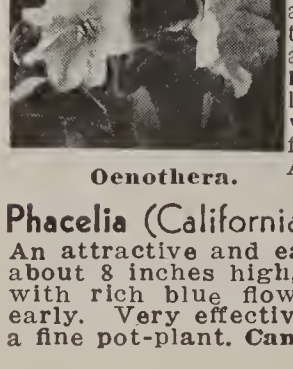
Crimson King. Dark crimson. Pkt. 5c.

Nierembergia Hippomanica

A most charming plant, 5 to 6 inches tall, with lovely lavender blue flowers, heightened by a touch of yellow in the center. Blooms 15 weeks from seeding, until heavy frost. Likes full sun. Extremely beautiful in the rockery, window box, flower pot or border. Has a spread of 8 to 10 inches. A half hardy perennial. Pkt. 35c.

Nigella (Love-in-a-Mist)

A compact free-flowering plant of feathery foliage, with curious looking flowers and seed pods of easy culture, growing well in any garden soil. It is a hardy annual, about 15 to 20 inches high. Flowers are light blue or white. Blooms all summer. Mixed. Pkt. 5c.



Oenothera.

Oenothera (Evening Primrose)

Plant 1 to 2 feet high. Produce continuously large single Poppy-like flowers of rose, yellow. white, etc. Blossoms open towards evening and last well into the next day. Likes a sunny location.

Lamarekiana. Yellow, large flowered, very showy. 1 to 2 ft. Blooms June to August. Pkt. 5c.

Phacelia (California Blue Bell)

An attractive and easily grown annual about 8 inches high, loosely branching with rich blue flowers. Blooms very early. Very effective for edgings, also a fine pot-plant. Campanularia. Pkt. 5c.

Pansies

Plant in a shady situation and give plenty of moisture and fertilizer. Pick faded blooms so they do not go to seed. Plants about 6 in.

PANSY CULTURE. The seed may be sown indoors in February or March; or in Spring in the open ground, in a shady, cool spot where the plant can be protected from the strong mid-day sun. Pansies should be classed more as a biennial and seed sown every year.

Pansies should be in every garden.

Engelmann's Giant. This early flowering giant strain contains a great variety of both dark and light shades; all of the five blotched type. Pkt. 15c.

Gould's Reliable Pansy Mixture. Flowers of large size, good form and substance, and pleasing range of shades and colors. Pkt. 10c.

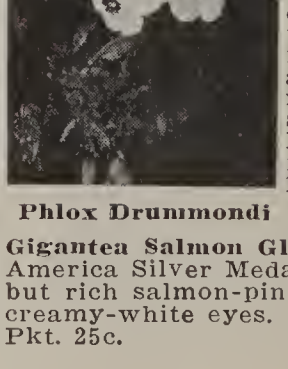
Gould's Fancy Bedding Pansy Mixture. A mixture of many sorts which are admirably adapted for beds or borders. They are very hardy and free-blooming. Pkt. 5c; 1/16 oz. 50c; ⅛ oz. 75c.

Phlox, Annual

Drummondi. For beds and massing, nothing can surpass these beautiful annuals. They produce immense trusses of large brilliant flowers throughout the summer. Seed may be started indoors or sown in the open ground any time after danger of frost is past, and in a very few weeks they will be aglow with brilliant coloring and remain so until killed by frost. Plants grow 12 to 15 inches high. Crimson, Flesh, Pink, Rose Dark Eye, Scarlet, Violet, Yellow, White, or mixed. Pkt. 5c.

Star. Of dwarf habit with very pretty star-shaped flowers. Grows about 12 inches high. Mixed colors. Pkt. 5c.

Nana Compacta Dwarf. Fine for ribbon bedding or borders. The plants grow very symmetrical in neat little bushes, covered with flowers all summer and fall. Grows only 6 to 8 inches high. Mixed, all colors. Pkt. 10c.



Phlox Drummondi

Phlox Drummondi Gigantea Art Shades. A new strain of Phlox Drummondi (winner of 1938 Award of Merit in the All-America selections) with florets an inch and a quarter in diameter. In addition to its enormous flowers it has a most wonderful range of color in soft art shades. Plants about nine inches high. Pkt. 10c.

Gigantea Salmon Glory. Awarded All-America Silver Medal in 1939. Has soft but rich salmon-pink florets with wide creamy-white eyes. A prolific bloomer. Pkt. 25c.

Petunias

The Petunia is peerless among annuals for effective summer bedding or window boxes. It is of easy culture. Blossoms early and continues until heavy frost. No other flower produces a greater diversity of colors, or retains its freshness for so long a period.

Hollywood Star. (Hybrida.) Awarded 1939 Silver Medal in the All-America Selections. A lovely new Petunia of rich rose color with creamy yellow in the throat. Flowers early, a very heavy bloomer until killed by frost. Pkt. 35c.

Velvet Ball. A Bronze Medal winner in the 1939 All-America Selections. Is a dwarf counterpart to the 1936 Gold Medal Winner, Flaming Velvet. Mahogany red flowers with a violet hue. Plants compact and a long season bloomer. Pkt. 25c.

Ladybird. Another Bronze Medal winner in the 1939 All-America Selections. Plants dwarf and compact, flowers size similar to Rosy Morn of a very deep rose, almost red, veined slightly darker towards throat. Pkt. 35c.

Petunia Burgundy (Grandiflora Single Plain Edged). Received Special Mention 1937 A. A. S. A strong growing type with very showy flowers, 3½ inches across, of rich wine red, contrasting with white throat. Plants about 12 inches tall. Pkt. 25c.

Petunia, Ruffled Martha Washington

Ruffled Martha Washington. Award of Merit 1935 All America Selection. The plants are about nine inches tall, in a perfect ball effect, actually covered with dozens of the delicately ruffled medium-sized flowers. The color is blush pink at the edges, deepening to dark violet in the throat, with heavy veining. Is excellent for use as a bedding, border, window box or pot. Pkt. 25c.

Flaming Velvet Petunia. 1936 Gold Medal Winner. Color a rich deep, velvety crimson in the small flowering type. Outstanding for color, type and uniformity. A brilliant Petunia for bed or border. Height 15 in. Pkt. 10c.

Petunia Dainty Lady

Single Fringed Dainty Lady. The first yellow Petunia has been granted Awards of Merit in both America and Europe. The flowers are of medium size and daintily fringed, delicate light yellow deepening to golden yellow at the throat. Plants are neat, compact, somewhat upright in habit, semi-dwarf and very free flowering. 12 inches high. Pkt. 50c.

Cal. Giant Petunia

Dwarf Rose Gem. Given the Award of Merit in the 1936 All-America. It forms a compact plant 5 to 6 inches high and 8 inches wide literally covered with 25 to 30 deep rich rose flowers, at one time. Individual blooms are 2 inches in diameter. Splendid for bedding, rock gardens, borders and window boxes. Pkt. 10c.

Petunia Giants of California. Flowers are very large with edges fringed, petals fluted and crinkled which gives a most varying range of colors. Height 12 in. Mixed colors. Pkt. 15c.

Balcony Petunias

A splendid single flowering type for window boxes, vases, hanging baskets, etc. The flowers make a very effective display all summer long. Trail about 15 inches.

Alba. White. Pkt. 15c.
Balcony Rosy Morn. (New.) This popular color of pink with white throat is still more beautiful than the bush type of the same name. Pkt. 15c.
Cornflower Blue. Rich blue. Pkt. 15c.
Deep Blue. Pkt. 15c.
Netted Blue Gem. Steel blue veined deep violet. Pkt. 15c.
Red. Crimson. Pkt. 15c.
Rose. Rose. Pkt. 15c.
Royal Blue. Deep velvety purple-blue. Pkt. 15c.
Star of California. Violet crimson, white star. Pkt. 15c.
Mixed Colors. Pkt. 15c.

Extra Selected Bedding Petunias

A superb strain of elegant, large flowers, noted for their brilliancy and variety of color.

De Luxe Mixture of large flowering varieties. About 18 inches. Pkt. 5c. ⅛ oz. 25c, ¼ oz. 40c.
Single Fringed. Ruffled edge. 14 inches. Mixed colors. Pkt. 35c.
Double Fringed. A very fancy mixture producing a large percentage of double. 12 inches. Pkt. 50c.
Double, choice mixed. Pkt. 25c.
Petunia, Strawberry Festival. A 1939 All-America winner. Gloxinia flowered. The color between crushed strawberry and old rose. Plants 18 in. tall. Pkt. 10c.
White Cloud. Large flowering, plain edged, pure white, dwarf, compact. 12 inches tall. Pkt. 50c.
Royal Purple. Large flowering single fringed. About 14 inches high. Pkt. 50c.
Dwarf Giant. (Ramona strain.) Flowers beautifully ruffled and frilled. Height 10 inches. Mixed colors. Pkt. 15c.

Dwarf Bedding Petunias

Very fine types of dwarf, erect growing Petunias suitable for massing, borders or window boxes. Plants 8 to 12 inches.
Cockatoo. Dwarf plants, flowers a velvety deep violet-purple with irregular sized white spots and stars. Pkt. 10c.
Compacta. Blue. Mid. blue. Pkt. 10c.
Compacta. Celestial Rose. Deep rose, compact. Pkt. 10c.
Compacta. Crimson. Small flowers. Pkt. 10c.
Compacta. Rose of Heaven. Rose pink. Pkt. 10c, 1/32 oz. 25c, 1/16 oz. 40c, ⅛ oz. 55c.
Compacta. Rosy Morn. Clear pink, white throat. Pkt. 10c. 1/32 oz. 25c, 1/16 oz. 40c, ⅛ oz. 55c.
Compacta. Silver Blue. Light blue. Pkt. 10c.
Compacta. Snow Ball. White. Pkt. 10c.
Compacta. Violacea. Deep violet. Pkt. 10c.
Compacta. Mixed colors. Pkt. 10c.
Finest Mixture. New, well balanced color range. Pkt. 15c.

Hybrida Single Small Flowering Varieties

Plants about 15 inches high.

Alba. White. Pkt. 5c.
Blue. Violet-blue. Pkt. 5c.
Genl. Dodds. Blood-red. Pkt. 5c.
Rose King Improved. (New.) Clear rich rose with a delicate light golden throat. Pkt. 10c.
Violacea. Deep violet. Pkt. 5c.
Mixed Colors. Pkt. 5c.

Queen Anne's Lace Flower

An old favorite of our grandparents. Plants grow upright 2 to 2½ feet high, heavily branched, with white flowers spread out umbrella-like from each branch end. Easily grown and cut flowers last long in water. Pkt. 5c.

Poppies

Sow as early in the spring as possible, where the plants are to remain, as they will not bear transplanting. Be sure to thin out plants as they come up, to 4 to 6 inches apart. Sow at intervals to keep up a succession of bloom. As cut flowers they are short lived, but if their stems are dipped in boiling water for just one moment when cutting they will last much longer. Height, 20 to 30 inches.

Gould's Reliable Single Shirley. A charming strain of poppies, ranging from snow-white through all the delicate tints of pink, rose, carmine, crimson, blood-red and salmon. Height 30 inches. Mixed colors. Pkt. 5c, ¼ oz. 20c, ½ oz. 35c.

Gould's Reliable Double Shirley. Flowers are double and semi-double. Have the same wide range of colors as the Single Shirley. Height 1½ feet. Mixed colors. Pkt. 5c.

Poppy, Single Shirley

Flanders. Single, the well-known poppy of Flanders Field. The vivid scarlet-red flowers are very showy when grown in masses. Height 2½ feet. Pkt. 5c.

American Legion. Beautiful large single flowers of a bright orange-scarlet color. Plants grow about 2½ feet high. Pkt. 5c.

Gould's Reliable Double Mixture. The flowering period of Double Poppies is very much longer than that of the Single Shirleys and the plants need more space to develop to perfection. Double Poppies make splendid cut flowers. Plants 18 inches. Mixed colors. Pkt. 5c, ¼ oz. 20c, ½ oz. 35c.

Tulip Poppy (Glaucum.) Large tulip shaped flowers of dazzling scarlet. Grow 20 inches high. Pkt. 5c.

Hybrida Splendens. Large red flower similar to Oriental Poppy. Plants about 30 inches. Pkt. 5c.

American Flag. Flowers very large double, snow-white, bordered with scarlet. Height about 2½ feet. Pkt. 5c.

Carnation Flowered Mixed. Splendid double fringed flowers. Height 2½ feet. Pkt. 5c.

Portulaca, Moss Rose

Portulaca (Moss Rose)

A low growing annual with thick stems and foliage; bearing brilliant colored cup shaped flowers during the entire summer. This plant is suitable for rockeries and banks and will grow and bloom profusely in a dry hot situation where other plants would fail. In sowing mix the seed with dry sand to insure an even distribution. About 6 inches high.

Single. Mixed colors. Pkt. 5c; 1/16 oz. 15c; ⅛ oz. 25c; ¼ oz. 40c.

Double. Mixed colors. Pkt. 10c; 1/16 oz. 25c; ⅛ oz. 40c; ¼ oz. 65c.

Grandiflora, Double, large flowers, mixed colors. Pkt. 15c.

Grandiflora, Single, large flowers, mixed colors. Pkt. 10c.

Rhodanthe (Everlasting)

One of the finest and most beautiful of the Everlasting flowers. For winter bouquets, the dainty flowers will retain their brilliancy for years. 12 to 15 inches. Pink, white, or mixed. Pkt. 5c.

Ricinus (See Castor Oil Bean)

Rock Garden Mixture

This is a fine variety of annual flowering plants suitable for Rock Gardens. A select mixture. Pkt. 5c.

Rudbeckia (Cone Flower)

Attractive annual of compact growth. Excellent for cutting. Golden yellow flowers with brown markings, on long stems. Grows 2 to 3 feet high. Blooms June to August.

Bi-color Superba, golden yellow with brown center. Height, 2 feet. Pkt. 5c.

Salpiglossis (Painted Tongue)

Salpiglossis

A very beautiful hardy annual plant, 20 to 30 inches tall, flowering freely from July to early autumn.

Emperor. A large type having only one leading stem at the top from which it produces a large cluster of beautiful flowers. Mixed colors. Pkt. 5c.

Gloxiniflora Mixed. A special selection of the Painted Tube Tongue. Flowers large, fancifully veined in contrasting colors. Pkt. 5c.

Purple Self. A distinct new shade of rich deep velvety purple, free from all markings. Pkt. 5c.

Salvia (Scarlet Sage)

A standard bedding plant 12 to 24 inches tall, that keeps the garden bright with color until late in autumn. It is especially adapted for a border in front of tall shrubs or in back of dwarf growing plants. Salvia should be started indoors and transplanted to the garden after danger of frost is past.

Salvia Splendens

Splendens. Blooms from August until killed by frosts. The old favorite, producing scarlet flowers in summer and fall. Height about 2 ft. Pkt. 10c.

Clara Bedman or Bonfire. The spikes grow erect and stand clear above the foliage. The plants form handsome globular bushes. Height 1½ feet. Pkt. 10c.

America. A free and continuous bloomer, particularly valuable for bedding and planting in rows. 16 inches. Pkt. 15c.

Harbinger. Earlier Scarlet. Is a handsome large flowering sort, freely producing until fall tall spikes of vivid scarlet. Height about 16 in. Pkt. 15c.

Zurich. Much more dwarf in growth than other salvias, and more thickly studded with fine spikes of bright scarlet flowers. Early. 12 inch. Pkt. 15c.

Sanvitalia (Creeping Zinnia)

An annual of dwarf; compact growth; but spreads itself over the soil instead of growing upright. Useful for rockery, edging, beds, baskets or vase. Showy, bright yellow flowers bloom all summer. **Procumbens.** 6 ins. Pkt. 5c.

Scabiosa (Mourning Bride)

Commonly known as the Pincushion Plant, growing to a height of 20 to 30 inches. The flower stems are long and the blossoms keep well in water. When picked off regularly they will bloom all through the summer.

Large Tall Double. 2½ ft. high.

The varieties we offer are the large size and a greatly improved variety.

Azure Blue	Pure White
Black Purple	Reddish Black
Cherry Red	Rose
Coral Pink	Rosy Lilac
Fiery Scarlet	Salmon Rose
Mid-blue	Yellow

Any of above or Mixed Colors. Pkt. 5c.

Scabiosa

Blue Cockade. This long stemmed and free flowering Scabiosa is outstanding. The deep azure blue flowers are almost conical in shape. Plants 2½ feet. Pkt. 5c.

Giant Flowered Hybrids, Mixed. Large ball-shaped flowers, unusual colors. About 2½ feet tall. Pkt. 5c.

Tom Thumb Mixed. Miniature plants, only 6 to 8 in. high. Pkt. 5c.

New Salmon Beauty. This new giant annual Scabiosa of pure salmon color is the result of 12 years of work. Pkt. 15c.

Rosette. A lovely new color in the tall, large-flowered Scabiosa. A beautiful shade of deep rose heavily suffused with salmon. An exquisite color for the garden and for cut flower. Blooms are large on long, stiff stems. Pkt. 10c.

Blue Moon (New). Winner of Honorable Mention in 1939 All-America. This new introduction has no pincushion center but flowers are literally double, color a rich deep lavender blue on long stems. Plants about 42 to 48 inches in height. An outstanding flower. Pkt. 25c.

Scabiosa Blue Moon

Schizanthus (Butterfly Flower)

A charming annual which yields an abundance of blooms on delicate fern-like stems from July to September. Very desirable for cut flowers and a nice house plant for winter. Height 6 to 24 inches.

Sunset Hybrids. A new strain consisting of bright red and carmine shades, delicately marked with gold or white. 20 inches tall. Mixed colors. Pkt. 10c.

Excelsior Compactus. Finest Mixed. Semi-dwarf, free flowering. 6 inches. Pkt. 10c.

Dr. Badgers Giant Flowered Hybrids. A super strain, 1½ to 2 feet. Pkt. 10c.

Snapdragons—See Antirrhinum

Statice (Everlasting)

Beautiful free flowering plants similar to Baby's Breath; adapted for beds or borders. The flowers when dried, make pretty decorations for winter bouquets. 3 feet. Mixed colors.....Pkt. 5c

Stocks (Early Giant Imperial)

Improved Bismarks. One of the most highly prized of our annuals. This select strain produces a high percentage of double flowers. Suitable for pots as well as the garden. The delightful fragrance, free blooming, long lasting character make them invaluable for cut-flowers. Flower from July until October. Grow 20 to 30 inches tall.

Blood Red	Lilac or Light Blue
Blush Pink	Mauve Lavender
Chamois, Ivory	Old Rose
Chamois, Rose	Rose Pink
Elks Pride, Purple	White
Fiery Blood Red	

Each of above or mixed colors. Pkt. 10c.

Sweet Peas—See next page.

Sweet William (Annual)

The plants are of the same type and habits as of the old perennial kinds, but this annual variety will bloom the first year from seed. The flowers are very similar to the older sorts, having a variety of colors and very fragrant. 15 to 20 inches. Mixed colors. Pkt. 5c.

Tagetes (Single Dwarf Marigolds)

Dwarf, compact, bushy annuals of the Marigold family, with beautiful fern-like leaves, densely covered with flowers of bright orange and golden yellow, which flower from June until frost. A fine plant for the border or rockery, also potting.

Tagetes Gnome

Signata Pumila Gnome. The newest of the popular Tagetes family of Miniature Marigolds. Plants are only 6 in. high, covered with golden yellow flowers throughout the summer. Pkt. 10c.

Signata Pumila. Bright orange flowers covering the small bushy plants all summer. A lovely little plant. 10 inches. Pkt. 5c.

Signata Pumila Little Giant. A new strain, very dwarf plants, only 4 to 6 inches high and a spread of 8 to 10 inches, with an abundance of dainty single golden orange flowers. Pkt. 5c.

Tithonia (Mexican Sunflower)

Tithonia.

An odd plant growing 5 to 7 feet high, that throws up from the root many stout, woody stalks like the Dahlia, with large foliage. The dazzling orange-scarlet flowers resemble the single Zinnia. Is especially desirable for planting among shrubbery or in the background of wide borders. **Speciosa.** Orange - vermillion. Pkt. 5c.

Speciosa Fireball. Fireball is undoubtedly the last word in brilliance of color in a fall blooming plant. Flowers are a vibrant scarlet orange with clear yellow center, 4 to 5 inches across on fine long stems. Plants grow up to 9 feet high. Start seed indoors. Pkt. 25c.

Try Vigoro in your flower garden. You will be amazed at the vitality your plants will show and the most wonderful blooms you will get.

Sweet Peas

Prices on Sweet Peas

All varieties: Pkt. 5c; 1 oz. 15c; 2 oz. 25c; ¼ lb. 45c; 1 lb. $1.75.

Sweet Peas—Fluffy Ruffles

Sweet Peas are one of the most fascinating flowers of all garden annuals. The blooms, with their long wiry stems, delicate fragrance, and great variety of fascinating shades, have a grace and individuality for table decorations that no other flower quite equals.

How to Grow Fine Sweet Peas

We can all grow fine Sweet Peas with lovely long stems if we will observe a few simple rules.

First—Good seed. Second—Rich soil, deeply dug. Third—Early sowing. Fourth—Early staking. Fifth—Frequent fertilization to insure healthy, rapid and continuous growth. Sixth—Keep soil loose and porous.

Select an open sunny spot in the richest part of the garden and then apply a thick layer of pulverized Sheep Manure 18 inches wide. Remember that Sweet Peas are deep rooting plants so that the soil must be deeply and thoroughly worked. Spade the Sheep Manure in as deep as the fork will go and turn the soil over three or four times so that the manure becomes thoroughly mixed with it, then level, and your bed is ready for planting. Sow in double rows, that is, open two drills about 8 to 10 inches apart and 4 to 5 inches deep and scatter the seed liberally, but not too thick (about one ounce to 15 running feet), then cover. The support for the plants to climb on is placed in the center of the two rows and should be in place by the time the plants are 2 inches high.

Success with Sweet Peas necessitates a rapid, healthy and vigorous growth during the cool weather of April and early May. An application of Vigoro about May 1 will help the plants to get their growth during this cooler weather.

Sweet Peas require sufficient plant food at all times, and you will find that a top dressing of Sheep Manure, Vigoro or Bone Meal applied regularly every two weeks and hoed in will help produce strong healthy vines.

Inoculate seed with Nitragin. Makes finer, more vigorous and healthier Sweet Peas. **Garden size, postpaid 12c.**

Blue

Blue Bird. Clear mid-blue of extremely bright color. The flowers are large and come on long, stout stems.
Commander Godsall. The color is an attractive shade of navy blue. Flowers are large, waved and fluted.
Heavenly Blue. Delphinium blue.
Jack Cornwell. Dark violet blue.
New Wedgewood. The immense blooms are a lovely shade of azure blue. One of the finest of blues.

Cerise

Ruffled Crinkles. Cerise pink.
Fiery Cross. Bright orange cerise.
Ruffled Exquisite. Salmon cerise.

Cream

Daffodil Improved. Large rich deep cream, exquisitely frilled and waved.
Dobbie's Cream. Deep cream.
Mastercream. Deep cream.

Crimson-Scarlet

Campfire. Vivid scarlet.
Charity. Brilliant crimson.
Derby Day. Sparkling crimson.
Fire. Flaming scarlet. Sun-proof.
King Edward. One of the best crimson Sweet Peas. Very large.
Ruffled Crimson. Rich velvety crimson.
Sybil Henshaw. Rich crimson.

Lavender-Mauve

Asta Ohn. Pinkish lavender. A beauty.
Chieftain. Pure satiny mauve.
Highlander. Clear lavender.
King Mauve. A very pleasing shade of deep mauve. Of immense size.
Powerscourt. Fine lavender of mammoth size. A lovely variety.

Maroon

Splendour. Giant red maroon.
The Sultan. Black velvety maroon.

Orange

Celebrity. Bright orange.
Gold Crest. Orange tinted salmon.
Improved Tangerine. The finest of orange colored Sweet Peas. Deep orange color almost approaches to a tangerine orange tint.
Orange Flame. Deep orange.
Pirate Gold. Deep golden orange.
Prince of Orange. Deep orange, a wonderful color. Rich and brilliant.

Pink

Fluffy Ruffles. A remarkable large, double, light cream-pink.
Giant Attraction. The large fawn-pink, cream ground, blooms of large size.
Hebe. Large bright pink.
Hercules. A magnificent pure pink.
Miss California. Salmon cream-pink.
Picture. Color is a blend of cream and pink shades, having a deeper flush on the wings, exquisitely frilled.
Pinkie. Large rose-pink.
Rosie. Deep rose pink.
Royal Pink. Large, beautiful blooms of shrimp pink.
Ruffled Rose. Soft rich rose.

Purple

Royal Purple. Very rich and warm purple; having a slightly softer color tone; early. Flowers are large.

Salmon

Barbara. Fine soft salmon.

White

Burpee's Giant White. One of the most perfect white Sweet Peas produced.
Constance Hinton. Giant white.
Edna May Improved. Pure white.
King White. Noted for the glistening purity of the whiteness.

Gould's Reliable Mixture Sweet Peas. Gould's Reliable Spencer Mixture of Sweet Peas is composed of a special selection of varieties to produce a harmony of colors that is rarely offered in mixtures.

Thunbergia (Black Eyed Susan)

Thunbergia.

A beautiful, rapid-growing annual climber. Used extensively in hanging baskets, vases, etc., and to cover low fences. Can be used in the rockery as it will trail over the ground, forming a dense mat of foliage and trumpet shaped flowers. Colors range through all shades of yellow, orange, buff, to pure white with dark centers. Will grow 5 feet. Finest mixed. Pkt. 5c.

Torenia (Wishbone Flower)

Bushy plants 10 inches high covered with lovely, rich colored snapdragon-like flowers of sky blue with a touch of gold on the tip. Fine for beds, potting or hanging baskets. **Fournieri.** Pkt. 10c.

Ursinia

Plants are dwarf in habit, about a foot high, with daisy-like flowers of bright orange with deep crimson center. Blooms summer and fall. Very popular in Europe. **Aurora.** Pkt. 10c.

Venidium

Produces long daisy-like flowers similar to the African Daisy, of deep orange, apricot, cream, white, yellow or salmon colored flowers 4 to 5 inches across marked at center with a reddish-brown zone. Plants grow 2 to 3 feet. Bloom over a long period.
Fastuosum. Hybrids. Pkt. 10c.

Verbena

Verbena.

The Verbena is one of the most popular garden annuals. Verbenas are particularly fine for beds, borders, window boxes, or as an undergrowth to tall plants. The sweetly scented flowers are borne in large clusters and bloom profusely from midsummer until late in autumn. Plants 12 inches high.

Hybrida Grandiflora.

Blue, white eye.
Carmine Rose.
Crimson.
Flame Pink.
Garnet red, cream eye.
Rose, white eye.
Rose pink, white eye.
Royal Blue, cream eye.
Salmon Pink.
Scarlet.
Scarlet, small eye.
Violet, white eye.
White.
Mixed Colors.

Each of above. Pkt. 5c.

Blue Sentinel. Bronze Medal winner in the 1939 All-America Selections. Plants compact 10 to 12 inches high, flowers a rich navy blue self color held erect above foliage. Fine for cutting and dark beds. Pkt. 25c.

Crimson Glow. Flowers are pure glowing crimson, wholly without even a small light eye. Pkt. 10c.

Beauty of Oxford Hybrids. Shades from rose pink to rose red. Pkt. 10c.

Lavender Glory. New, lavender medium creamy eye. Pkt. 10c.

Hybrida Compacta Erecta. A distinct new type of Verbena, very compact, dwarf. Brilliant crimson. Pkt. 10c.

Erinoides (Moss Verbena). Produces a mass of moss-like foliage above which are borne heads of purplish-blue or white blossoms. Flowers from June until frost. 12 in. Pkt. 5c.

Venosa. This variety is largely used for bedding purposes. Strong thrifty grower and covered with bright purplish heliotrope flowers from early summer until late fall. 1 foot. Pkt. 5c.

Violas

(or Tufted Pansies) Resemble miniature pansies or violets. Do well in sun or shade and flower from early summer until frost. Splendid for border or rockery. Height, about 6 inches.

Apricot. Beautiful rich apricot shade, center tinged orange. Pkt. 15c.

Jersey Gem. Short, bushy growth, blooming throughout the summer, having flowers of rich pure violet, large and fragrant. Long stems make it a good cut flower. Pkt. 25c.

Johnny Jump-up. The plants are easily raised from seed, come into bloom very quickly, and their delightful little pansy faces appeal to every one who admires a pansy or violet. Pkt. 15c.

White Perfection. One of the finest whites. Pkt. 10c.

Violas, mixed colors. Pkt., 10c.

Vinca Rosea (Periwinkle)

Ornamental free-blooming plants with light green shiny foliage, and handsome pink and white flowers. May be taken up in fall and potted and kept in bloom through the winter. Sow seed indoors early, or in the open when ground is warmed up. Grow 12 to 15 inches high. Mixed. Pkt. 5c.

Wallflower (Goldlack)

Are a half hardy perennial but had best be treated as an annual in this vicinity. Their adaptability for pot culture and outdoor bedding and the peculiar sweet fragrance of their flowers should win favor. They are easily grown and last long as cut flowers. Bloom in July and August. Plants grow about 18 inches high. Single or double, mixed. Pkt. 5c.

Wild Cucumber Vine (Echinocystis)

The quickest climber known for covering verandas, houses, trellises and arbors. It will withstand the heat and drought and retain its fresh green color until frost. Has white, fragrant flowers. Height, 15 to 20 feet. Pkt. 5c, ½ oz. 15c, oz. 25c.

Wild Garden Annual Flower Mixture

The easiest and surest growing annuals that will produce an abundance of flowers for cutting. Pkt. 5c. 1 oz. 15c, 2 oz. 25c, ¼ lb. 40c.

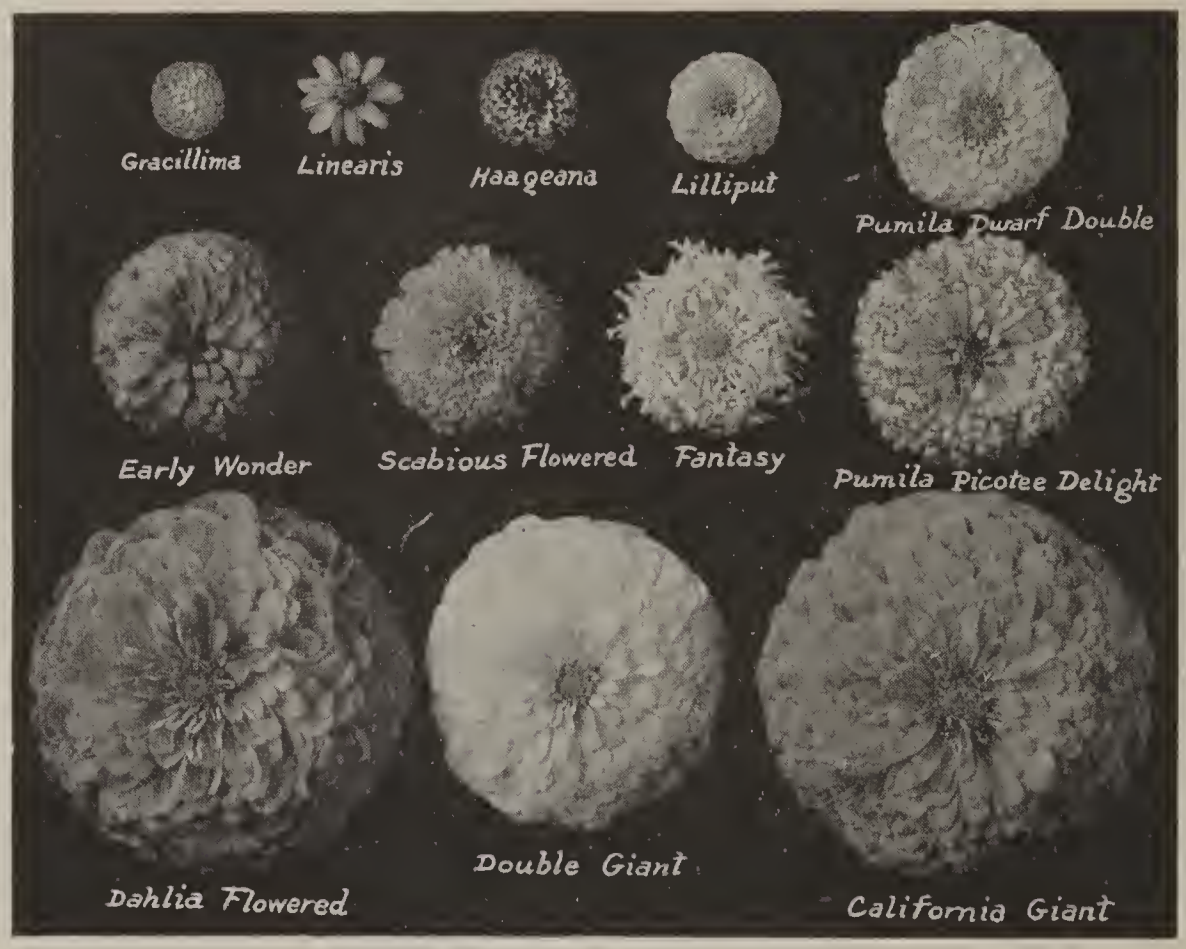
Xeranthemum

Another of the Everlastings. The flowers are small, but very double and come in shades of white, pink and purple with silvery foliage. Very desirable for drying and winter bouquets. Height, 18 to 24 inches. Pkt. 5c.

New Zinnias For 1939

Fantasy, White Light. 1939 All-America Selections. About as pure white as a Zinnia comes, on 2½ to 3 ft. bushy plants. Pkt. 15c.

Will Rogers, Dahlia Flowered. Dedicated to the memory of Will Rogers, the large flowers of glowing intense scarlet, attracts and arrests attention anywhere. Pkt. 15c.



Comparative Zinnia Flower Types.

Zinnias

Zinnias are one of the most desirable and lovely flowers in the garden. They grow well in partial shade but like most flowers do best in a sunny location. The seed may be planted in the garden from May 1st to June 1st, and when the plants are 2 or 3 inches high they should be thinned out to 12 or 15 inches apart. If earlier blooms are wanted the seed may be started indoors and transplanted to the open garden from May 15th to June 1st. Flower from early summer until frost.

TALL, LARGE FLOWERED ZINNIAS

GIANT DAHLIA FLOWERED. 2½ to 3 FEET

Canary Bird. Rich canary yellow.
Crimson Monarch. Largest of the red.
Dream. Deep rosy lavender.
El Dorado. Salmon apricot.
Exquisite. Light rose, center deep rose.
Golden Dawn. Golden yellow.
Golden State. Rich orange yellow.
Illumination. Deep rose, self color.
Lemon Beauty. Light lemon yellow.
Luminosa. Bright deep pink.
Meteor. Rich deep red, very large.
Old Gold. Various shades of old gold.
Old Rose. Real old rose shade, large.
Oriole. Orange and gold bicolor.
Polar Bear. Very large, pure white.
Purple Prince. Deep purple, large.
Scarlet Flame. Bright scarlet.
Each above or mixed colors. Pkt. 5c. 1/16 oz. 15c; ⅛ oz. 25c; ¼ oz. 35c.
California Giant or Mammoth. 3 to 4 feet. Mixed colors. Pkt. 5c, 1/16 oz. 15c, ⅛ oz. 25c, ¼ oz. 35c.

SCABIOUS FLOWERED MIXTURE

Plants 2 to 2½ feet high, flowers resemble Annual Scabiosa. Colors include crimson, scarlet, orange, yellow, pink and white. Mixed colors. Pkt. 5c.

PUMILA PICOTEE DELIGHT

Plants 2 to 2½ feet. One of the best Zinnias for cut flowers.
Golden Ray. Golden orange. Pkt. 10c.
Salmon Rose. Pkt. 10c.

CROWN O'GOLD

An outstanding novelty among Zinnias. Each petal is overlaid with a deep golden yellow at base, while carrying out the individual flower color at tip.
Desert Gold. A new introduction containing the light and deep hues of gold. Plants 2½ to 3 ft. Pkt. 10c.

Navajo. Another new Zinnia type. The flowers are very attractive, of medium size, about 2 inches in diameter, a good size for cut flower, on stems of medium length. Plants are about 2 feet tall and very free flowering. Colors range through soft tones of rose, pink, bronze, yellow, orange, lavender and combinations of these colors. Most of the flowers are two toned, darker towards the center. Mixed colors. Pkt. 5c.

Fantasy

Given Award of Merit 1935 All-America Selections. Color of flowers range through shades of red, yellow and orange as well as the popular pastel pinks and cream. Plants 2½ to 3 feet. Mixed. Pkt. 10c.

Zinnia Fantasy, Star Dust. Received the second highest award in the 1937 All-America winners. Flowers are a rich deep golden yellow. The 2 to 3-foot plants bloom in about 45 to 50 days from planting. Pkt. 10c.

DWARF, SMALL FLOWERED ZINNIAS

Linearis. (New.) A dwarf early flowering Zinnia, only 8 to 10 inches high with a spread of as much as 2 feet. The single flowers are a deep golden orange with a delicate light yellow stripe with dark center. Pkt. 10c.

Lilliput Pastel Mixture. Dwarf compact plants, 12 to 15 inches in height. Mixture includes soft shades of apricot, peach, yellow, pink, salmon, rose and orchid. Mixed colors. Pkt. 5c.

Imp. Lilliput. These plants form little bushes and are covered with tiny short stemmed very double flowers. Bloom all summer until late in the fall. Fine for borders. Grow 12 to 15 inches high. Canary Yellow, Crimson, Golden Orange, Rose Pink, Salmon Rose, White, Scarlet, Burnt Orange, Lilac, Purple or mixed. Pkt. 5c; 1/16 oz. 15c, ⅛ oz. 25c, ¼ oz. 35c.

Red Riding Hood. Grows but a foot high, of compact form and covered the entire season with double, intense scarlet flowers. Fine for border. Pkt. 5c.

Early Wonder. A new race of dwarf, early flowering Zinnias, producing masses of flowers on long stems. Especially recommended for cut flowers. Deep orange, Fiery Salmon Cerise Pink, Rose Pink or Mixed. Pkt. 10c.

Tom Thumb. Plants are only 4 to 6 inches high, compact, covered with red, orange, yellow, pink, rose and other pastel shades. Excellent pot plant. Mixed colors. Pkt. 5c.

Haageana (Mexican Hybrids). These small double flowers are fine for bedding yet have stems long enough for bouquets. Mixed colors. Pkt. 5c.

Pumila Double (Cut and Come Again). Plants are 12 to 18 inches high, flowers 2½ to 3 inches in diameter. Early, fine for cut flowers. Canary yellow, buttercup yellow, scarlet, white, rose pink or mixed colors. Pkt. 10c.

PLEASE NOTE

This price list cancels all prices on any previous issue of the price list, on the same items. We reserve the right to forward seed to the value of the money sent us, according as the market is higher or lower. Prices quoted include free delivery to any railway station in St. Paul. If Field or Grass Seeds or other items not marked prepaid are wanted by Parcel Post, please add postage.

Gould's SPECIAL Field Seed PRICE LIST

Issued January 20, 1939

R. L. Gould & Co.

SEEDSMEN SINCE 1898

496-502 Jackson Street, St. Paul, Minn.

Prices subject to stock being unsold and subject to market change.

DISCLAIMER

R. L. Gould & Co. do not give and their agents and employees are forbidden to give any warranty, express or implied, as to the description, quality, productiveness, or any other matter of any seeds, bulbs or plants they send out, and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned and money paid for same will be promptly refunded.

ALFALFA

Seamless bags extra at 25c each—150 lbs. per bag
60 lbs. to the bushel

	Lbs. per acre	1 lb.	¼ bu.	½ bu.	1 bu.	100 lbs.
Gould's Reliable Grimm	12	60c	$6.75	$13.25	$25.75	$42.50
Minn. Variegated	12	60c	6.75	13.00	25.00	41.00

CLOVERS

Seamless bags extra at 25c each—150 lbs. per bag
60 lbs. to the bushel

	Lbs. per acre	1 lb.	¼ bu.	½ bu.	1 bu.	100 lbs.
MEDIUM RED						
Sterling	8	45c	$4.50	$ 8.50	$16.75	$27.50
MAMMOTH RED CLOVER						
Sterling	8	45c	4.75	9.00	17.40	28.50
ALSIKE OR SWEDISH CLOVER						
Sterling	8	40c	4.15	7.85	15.30	25.00
WHITE OR DUTCH CLOVER						
Reliable	8	75c	10.00	19.50	37.80	62.00
SWEET CLOVER—WHITE BLOSSOM						
Sterling	14	20c	1.65	3.00	5.50	8.50
SWEET CLOVER—YELLOW BLOSSOM						
Sterling	15	20c	1.75	3.10	5.75	8.90

TIMOTHY

Seamless bags extra at 25c each—45 lbs. to the bushel

	Lbs. per acre	1 lb.	10 lbs.	½ bu.	1 bu.	100 lbs.
TIMOTHY	10	20c	$1.00	$1.40	$2.50	$5.00

TIMOTHY AND ALSIKE MIXED	Lbs. per acre	1 lb.	10 lbs.	25 lbs.	50 lbs.	100 lbs.
Reliable	12	20c	$1.15	$2.25	$4.10	$7.75

MISCELLANEOUS GRASS SEEDS

Burlap bags 10c each; seamless 25c

	Lbs. per acre	1 lb.	10 lbs.	25 lbs.	100 lbs.
Kentucky Blue Grass	20	Please Ask For Quantity Prices			
Red Top	10	Please Ask For Quantity Prices			
Astoria Bent	..	Please Ask For Quantity Prices			
Seaside Bent	..	Please Ask For Quantity Prices			
Domestic Rye Grass	28	Please Ask For Quantity Prices			
Meadow Fescue	25	.35	2.50	5.75	20.50
Sheep Fescue or Chewings	20	1.35	12.30	27.00	100.00
Poa Trivialis	20	.90	8.30	20.00	65.00
Orchard Grass	28	.45	3.30	7.50	28.75
Bromus Inermis	28	.40	2.50	6.00	21.50
Reed Canary Grass	..	.50	4.50	9.25	35.00

SALT

Farmer's Best, coarse, 100-lb bag	$ .95
Buffalo, fine table, 100-lb. bag	1.25
No. 7 Rock or Ice Cream, 100-lb. bag	1.10
Watersoftener, 100-lb. bag	1.25
White Cattle, 50-lb. block, each	.55
Iodized, 50-lb. block, each	.85
Epsom Salts, for stock or poultry, per lb., 10c; 5 lbs.	.30

SEED GRAIN

5 Bushels or more, 10 cents per bushel less.
Burlap bags, 10c; seamless, 25c each, extra.

	Lbs. per bu.	1 lb.	¼ bu.	½ bu.	1 bu.
OATS					
Gould's Selected Swedish	32	10c	$ .35	$ .60	$1.10
N. K. & Co.'s Lincoln	32	10c	.35	.60	1.10
Sixty Day	32	10c	.30	.45	.75
Gopher	32	10c	.30	.45	.75
BARLEY					
Velvet	48	10c	$ .35	$ .60	$1.10
Manshury	48	10c	.35	.60	1.10
Oderbrucker	48	10c	.35	.60	1.10
Wisconsin No. 38, Barbless	..	10c	.35	.60	1.10
SPELTZ					
Speltz or Emmer	40	10c	$ .30	$ .50	$ .80
RYE					
Spring	56	10c	$ .40	$ .70	$1.25
Rosen Winter	56	10c	.35	.60	1.00
WHEAT					
Marquis	60	10c	$ .50	$ .80	$1.50
Thatcher	60	10c	.50	.80	1.50
Durum or Macaroni	60	10c	.40	.70	1.25
FLAX					
Common	56	10c	$0.90	$1.65	$3.20
Bison (Sealed and Certified)	56	10c	.90	1.70	3.25

FIELD PEAS

60 lbs. to the bushel
Seamless bags, 25c each—contain about 150 lbs.

	1 lb.	¼ bu.	½ bu.	1 bu.	100 lbs.
Canada Yellow	15c	$1.15	$2.00	$3.90	$6.00
White Marrowfat	15c	1.35	2.50	4.75	7.25

FIELD BEANS

60 lbs. to the bushel
Seamless bags extra at 25c each—contain about 150 lbs. per bag

	1 lb.	¼ bu.	½ bu.	1 bu.	100 lbs.
Soy Beans	10c	$ .65	$1.15	$2.10	$3.00

BUCKWHEAT

50 lbs. to the bushel
Sacks extra—Burlap, 10c; Seamless, 25c each

	1 lb.	¼ bu.	½ bu.	1 bu.	100 lbs.
Japanese	10c	$ .50	$ .85	$1.50	$2.85

Gould's Special Field Seed Price List—Continued

Issued January 20, 1939 — Prices Subject to Market Changes

FIELD CORN

Seamless bags extra at 25c each; burlap bags 15c each. These quotations are F. O. B. St. Paul. All corn offered subject to stock remaining unsold.

	1 lb.	¼ bu.	½ bu.	1 bu.
Gould's Reliable Yellow Dent	10c	80c	$1.50	$2.75
Minnesota No. 13 Cert.	10c	80c	1.50	2.75
Hybrid, 100 Day Corn		2.00	3.85	7.50

FODDER CORN

Seamless bags containing 2½ bu. each, 25c extra; burlap bags, 15c

	1 lb.	¼ bu.	½ bu.	1 bu.
Gould's Reliable Red Cob	10c	35c	60c	$1.10
Elephant	10c	35c	60c	1.10
Sweet Corn Fodder, per 100 lbs.				$6.00

POP CORN

	1 lb.	5 lbs.	10 lbs.	25 lbs.	100 lbs.
Japanese Dwarf Hulless	25c	85c	$1.60	$3.50	$11.00
South American	25c	85c	1.60	3.50	11.00

SORGHUM

Burlap bags, 15c; seamless 25c each, extra.

	Lbs. per acre	1 lb.	10 lbs.	25 lbs.	50 lbs.	100 lbs.
Early Amber for Fodder	50	10c	55c	$1.00	$1.75	$3.25
Minnesota Early Black	50	10c	65c	1.15	2.15	4.00

MILLETS

48 lbs. per bushel. In seamless sacks containing about 130 lbs. Sacks 25c each.

	1 lb.	¼ bu.	½ bu.	1 bu.	100 lbs.
German Type	10c	50c	$ .95	$1.75	$3.25
Siberian	10c	50c	.95	1.75	3.25
Japanese	10c	60c	1.00	1.90	3.50
Broom Corn or White Proso	10c	60c	1.00	1.90	3.50

MISCELLANEOUS FIELD SEEDS

Burlap bags, 15c; seamless 25c each, extra.

	1 lb.	5 lbs.	10 lbs.	25 lbs.	100 lbs.
Sand or Winter Vetch	25c	$1.00	$2.00	$4.00	$14.50
Sunflower, Mammoth Russian	15c	.65	1.25	2.75	10.00
Sudan Grass	15c	.45	.75	1.25	4.35
Dwarf Essex Rape	20c	.80	1.50	3.00	9.75

WHOLESALE PRICE LIST OF INSECTICIDES

Quantity Prices Will Be Quoted Later

ONION SETS

Prices Will Be Given Later

ONION PLANTS

Prices Will Be Given Later

Hand Selected **SEED POTATOES** Bags Included

Prices Will Be Quoted Later

FERTILIZERS

FERTILIZER ANALYSIS: First number indicates Nitrogen; 2nd, Phosphoric Acid; 3rd, Potash.

	5 lbs.	10 lbs.	25 lbs.	50 lbs.	100 lbs.	500 lbs.	1 ton
Swift's Vigoro, 4-12-4	$0.45	$0.85	$1.50	$2.50	$4.00	$20.00	$80.00
Armour's Garden & Lawn, 4-8-6	.50	.70	1.00	1.75	3.00	———	———
Armour's Florist's Mixture, 5-15-5	.50	.75	1.25	2.00	3.00	14.25	57.00
Armour's Special Tree Food, 10-8-6	.50	.75	1.25	2.00	3.50	15.75	63.00
Armour's Special Turf, 10-8-6	.50	.75	1.25	2.00	3.50	15.75	63.00
Armour's Special Turf, 6-12-4	.50	.75	1.00	1.75	2.75	12.50	45.50
Swift's Golf Special, 12-6-4	.....	.....	.....	.....	3.25	15.00	57.50
Swift's Golf Special, 6-12-4	.....	.....	.....	.....	2.75	13.00	50.00
Milorganite, 6-3-0	.50	.75	1.20	1.90	3.00	———	———
Floranid, 46-0-0	.90	1.50	3.25	5.75	10.80	———	———
Raw Bone, 4-24-0	.35	.60	1.00	2.00	3.30		
Steamed Bone	.35	.60	.85	1.45	2.75		
Rose Grower Bonemeal	.45	.85	1.25	2.00	3.50	———	———
Sheep Manure	.30	.50	.85	1.45	2.50		
Cattle Manure	.35	.55	.85	1.50	2.50		
Poultry Manure	.40	.65	1.25	2.10	3.50	———	———
Sulphate of Ammonia	.35	.55	.90	1.65	2.90		
Nitrate of Soda	.45	.65	1.00	1.75	3.20		
Sulphate of Potash	.50	.80	1.50	2.50	4.00		
Muriate of Potash	.50	.75	1.25	2.00	3.50		
Horn Shavings	.85	1.50	2.75	5.25	10.00	———	———
Hoof Meal	.60	1.00	2.00	3.50	6.15	———	———
Blood Meal	.60	1.00	2.00	3.25	6.00	———	———
4-8-6	.50	.70	.90	1.50	2.50		
4-8-8	.50	.75	.90	1.50	2.50		
6-15-9	.50	.75	1.15	1.75	3.00		
4-16-4	.50	.75	1.00	1.75	3.00		
0-9-27	.50	.75	1.25	2.00	3.00		
0-10-20	.50	.75	1.00	1.75	3.00		
3-12-12	.50	.75	1.00	1.75	3.00		
2-14-14	.50	.75	1.00	1.75	3.00		
3-9-18	.50	.75	1.00	1.75	3.00		
Super Phosphate, 0-45-0	.50	.75	1.25	2.25	3.85		
Super Phosphate, 0-20-0	.40	.60	.80	1.25	2.00		
Hardwood Ashes	.30	.45	.65	1.15	2.00	———	———
Pulverized Limestone	.30	.45	.55	.65	1.00	———	———
Gypsum or Land Plaster	.25	.35	.50	.75	1.20	———	———
Hydrated Lime	.25	.40	.55	.75	1.50	———	———

Gould's Cackler

PUBLISHED IN CONNECTION WITH POULTRY FEED PRICE LIST

Vol. 16 JANUARY 20, 1939 No. 1

A CHICK RAISING PROGRAM TO HELP YOU MAKE MORE MONEY

By C. S. Johnson, Manager Poultry Department, Purina Mills

The starting point for success in the poultry business is the chicks you buy. There are at least four factors that must be considered in buying your chicks.

BREEDING

The number of eggs a hen can lay is determined by her breeding. The egg record of her sire and dam fix exactly her ability to lay eggs. It is important to know that the chicks you buy are from breeding stock that has been selected not only for good breed type but also for egg laying ability.

This is true, of course, unless you are buying chicks for strictly nest purposes. And then you will want chicks that are out of strong, vigorous breeding stock selected for early maturity, full feathering and livability. So, first—get pure bred chicks.

DISEASE CONTROL

Insist on chicks from flocks that have been blood tested for Pullorum. Be sure that the hatchery has a good sanitation program to protect the health of the chicks after they are hatched and before you get them. Those are the practices that have tremendously raised the health level of breeding flocks and chicks.

INCUBATION

You need worry very little about the actual hatching of the chicks you buy. The machines are marvelously accurate in controlling the entire process throughout the full 21 days. Good hatcheries today have incubation well controlled.

PURINA EMBRYO FEEDING

Thousands of experiments and practical experience have proved that the hen's ration directly influences the hatchability of the eggs and the vitality and livability of the chicks.

You want chicks made out of the right kind of ingredients. You don't want chicks made out of eggs lacking in the necessary nutrients and vitamins because the hen had an unbalanced, weak ration.

The hen controls directly the amount of vitamins and minerals she puts in the egg. She does this naturally. The essential vitamins are A, D, G and E. In the vase of Vitamin E, careful experimental work at leading colleges and universities show that the cereal grains contain ample quantities and that no need exists for special ingredients to reinforce the ration. Not one of these great experiment stations such as Cornell, Iowa State, Ohio, Massachusetts or California has been able to either prevent or cure fowl leukosis (range paralysis) by use of any special Vitamin E products.

Vitamin A is found in rich quantities in some alfalfa and yellow corn. In addition, Purina Startena and other Purina Poultry Chows contain Puratene which has 750 times more Vitamin A than yellow corn. This Vitamin raises the resistance of the chick to colds, promotes growth and is essential to hatchability.

Vitamin D found in cod liver and sardine oil is necessary for good shells on eggs, hatchability, and strong bones. Through laboratory control, Purina insures the uniformly high Vitamin D content of all fish oils used.

Vitamin G (flavin) is vital to hatchability and chick growth. Heretofore, Purina has depended on the best grade dried milk and dehydrated alfalfa. Now Puri-Flave has been added to all Purina Poultry Chows. It contains 2½ times more Vitamin G (flavin) than *any* other commercial feed ingredient; increases this factor in Purina Chows fully 33% and is *exclusively* a Purina ingredient.

In buying your chicks this year investigate all of these quality factors but particularly the *feeding program* of the parent flocks. It is a trustworthy key to what you can expect in livability and future profits.

THE FEEDING PROGRAM

STARTENA to day old chicks—until 2 lbs. per chick has been consumed.

GROWENA or GROWING CHOW — Following Startena until pullets are 20 weeks old.

PURINA LAYING CHOWS — Beginning at 20 weeks.

ASK FOR PURINA SPRING CHICK BOOKLET FOR VALUABLE CHICK RAISING HELPS

EARLY CHICKS

Start your chicks as early as possible. Carefully manage and feed them through every step of the growing period. Have them laying full size eggs at top speed during September, October, November, and December. Those are the profit months. *Prepare* for them now, *plan* for them and you can *Cash in* on them.

Poultry, Bird and Animal Feed Price List

Strictly High Grade Feeds

R. L. Gould & Co.

Seeds and Feeds Since 1898

496-502 Jackson Street, St. Paul, Minn.

PLEASE NOTE — This price list cancels all previously issued. Prices quoted include bags, and are F. O. B. St. Paul, subject to change without notice. As prices on grains fluctuate from day to day, orders will be filled at current rate on the day received. Should prices decline we will refund amount overpaid or ship extra quantity to cover cash.

Starting and Growing Mash Feeds

	25 lbs.	50 lbs.	100 lbs.
Purina Chick Startena	$ .95	$1.75	$3.35
Purina Turkey Startena	.95	1.80	3.55
Purina Chick Growena	.80	1.50	2.80
Purina Turkey Grower	.70	1.35	2.60

Scratch Feeds

	25 lbs.	50 lbs.	100 lbs.
Gould's Reliable Scratch	$ .60	$1.10	$1.95
Purina Scratch	.55	1.00	1.80
Purina Chick Chow (Fine)	.70	1.25	2.30
Purina Chick Chow (Coarse)	.70	1.20	2.25
Pigeon Feed	1.00	1.85	3.50

Egg Mash

	25 lbs.	50 lbs.	100 lbs.
Purina Lay Chow	$ .85	$1.50	$2.90
Purina Layena	.75	1.40	2.75
Purina Family Flock Chow	.75	1.30	2.50

Dried Buttermilk

19 lbs. ..... $1.00 — 50 lbs. $2.45
25 lbs. ..... 1.25 — 100 lbs. 4.75

Pure Cod Liver Oil

1 qt. ..... 55c; ½ gal. ..... 85c; 1 gal. $1.50
30 gals. at $1.05 per gal.—Drum included

Bird Seed

	2 lbs.	5 lbs.	10 lbs.
Bird Seed, Gould's Mixture	$0.25	$0.60	$1.15
Canary	.30	.70	1.30
Rape	.30	.70	1.30
Millet	.20	.35	.70
Sunflower (Select Large)	.25	.60	1.15
Bird Gravel (bulk)	.10	.25	.40
Cuttle Bone	Oz. 10c; 3 ozs. 25c		

Poultry Litter

Peat (Large Bale) $3.25
(Covers about 350 sq. ft., 1 inch deep.)

Unmixed Grains

	25 lbs.	50 lbs.	100 lbs.
Steel Cut or Rolled Oats	$ .80	$1.50	$2.85
Middlings	.45	.75	1.35
Wheat Bran	.45	.70	1.25
Corn Meal	.55	.95	1.70
Shelled Corn	.50	.85	1.55
Cottonseed Meal	.75	1.20	2.25
Cracked Corn, screened (medium or hen size)	.55	1.00	1.85
Gluten Feed	.65	1.20	2.25
Kaffir Corn	.70	1.15	2.15
Oil Meal	.80	1.45	2.75
Ground Oats	.60	1.00	1.75
Barley	.60	1.00	1.75
Oats	.50	.85	1.55
Wheat	.55	1.00	1.75
Sunflower Seed (select large)	2.50	4.50	8.50
Sunflower Regular	1.60	3.00	5.75
Cracked Wheat	.70	1.20	2.25
Hulled Oats	.80	1.50	2.85

High Protein Feeds

	25 lbs.	50 lbs.	100 lbs.
Meat Scraps	$ .90	$1.70	$3.25
Fish Meal	1.00	1.95	3.75
Blood Meal	1.15	2.20	4.25
Ground Bone	.90	1.50	2.65

Shell, Grit and Charcoal

	25 lbs.	50 lbs.	100 lbs.
Oyster Shell (hen size)	$0.35	$0.60	$1.00
Oyster Shell (chick size)	.35	.60	1.00
Mica Crystal Grit (Chick, pigeon or hen size)	.40	.75	1.40
Foust Pigeon Grit	.80	1.50	2.75
Charcoal (Blk. Diamond Brd)	.70	1.20	2.25

Miscellaneous Feed

	25 lbs.	50 lbs.	100 lbs.
Blatchford's Calf Meal	$1.25	$2.35	$4.50
Rabbit Chow (complete)	.80	1.50	2.85
Dog Chow Meal	1.75	3.20	6.25

Dog Chow ..... 5 lbs., 50c; 25 lbs., $2.25; 100 lbs., $7.50
Gold Medal Dog Pellets—
5 lbs., 50c; 25 lbs., $2.00; 100 lbs., $7.00

Above prices 10c less on 100-lb. bags picked up at our store.

PERENNIAL FLOWER SEEDS

CULTURE. The seed bed must be well drained, fine and firm. If the soil is at all heavy lighten with sand. The seed may be planted from May to early July. When seedlings have two pair of leaves transplant into rows a few inches apart each way, and later when they begin to crowd transplant a second time. This involves extra work but is necessary to raise sturdy plants. Keep them partly shaded all summer. In August or September, if well developed, they may be placed in their permanent locations where they are to blossom the following year, or left in the seed beds for early spring transplanting.
BIENNIALS. Some varieties if planted early will bloom the first year, but most bloom the second year and die.
PERENNIALS. Many varieties bloom the first year, but usually they start the second year and live indefinitely, excepting that they die down in winter and come to life again in the spring.
SPACING. A safe rule is to plant perennial plants one-half the ultimate height, apart. Do not crowd plants.
CULTIVATION. Use the hoe freely in keeping the ground well cultivated all summer long. You will be repaid with stronger plants and more, beautiful flowers.
WINTER PROTECTION. It is best to cover young plants the first winter with straw or similar mulch along in November, before real cold weather sets in. Most perennials need no winter covering after they have become established, but some, like Oriental Poppies, Shasta Daisies, Tritoma and Iris ought to have a winter covering in late November, here in the Northwest. Remove covering gradually in the spring.

Achillea

One of the best hardy perennials. Grows about 2 to 2½ feet high, blooms from spring until frost. Is covered with deep rose or white double flowers. Flowers resemble Pompon Chrysanthemums. If seed is planted early, it will bloom the first year.
Kelwayi Rosea. Carmine Rose. Pkt. 10c
The Pearl, Double White. Pkt. 10c.

Aconitum (Monk's Hood)

Hardy Perennials with showy blue spikes of hood-shaped flowers. Valuable for planting in shady beds or borders. 3 to 4 feet. Pkt. 10c.

Agrostemma

Agrostemma (Coronaria)

Stout, erect-growing plants with silver foliage, which contrasts well with the showy bright rosy-crimson flowers, produced during June and July. Grows 2 feet high. Fine for border or rockery. **Atro-sauginea.** Pkt. 10c.

Alyssum Saxatile

Has masses of bright yellow flowers. After the blooming season is over the seed pods may be used in Everlasting bouquets. Grows 8 to 12 inches high. Pkt. 10c.

Anchusa (It. Dropmore Variety)

Blue, large, forget-me-not-like flowers. Very fine for the back of the perennial border or for a screen. Grows 4 to 5 feet high, blooms in June and July. Pkt. 10c.

Anthemis (Hardy Marguerite)

Grows about 12 to 15 inches high, bearing in profusion, daisy shaped, yellow or white flowers, that blossom in July and August.
Kelwayi. Golden yellow. Pkt. 10c.
Montana. Pure white yellow eye. Pkt. 10c.

Aquilegia (Columbine)

Charming hardy perennial plants growing from 12 inches to three feet high, bearing in countless numbers through May and June their exquisite blossoms of clear blue, white, rose, lavender, yellow and purple. For planting in permanent borders along woods or shrubbery they are unsurpassed. Fine for the rockery.

Coerulea (Rocky Mountain Columbine). A lovely combination of blue and white. Blooms May to July. Plants 1 to 2 feet. Pkt. 10c.

Mrs. Scott Elliott's Strain of Long Spurred Hybrids. This is one of the very finest strains grown. Height, 2½ feet. Mixed colors. Pkt. 15c.

Dobbie's Imperial Long Spurred. A fine strain producing large flowers in brilliant colors. Height about 2½ feet. Pkt. 15c.

Aquilegia Long Spurred

Arabis Alpina (Rock Cress)

Plants are spreading, only 12 inches high, with pure white flowers in spring. Pkt. 10c.

Armeria

A pretty border or rock garden plant that does well even in poor soil. Foliage is grass-like, above its base numerous stiff stems carry little globe-shaped flowers in early summer. Perfectly hardy. Height 6 to 24 inches.
Formosa Large Flowering Hybrids. 24 inches tall. Pkt. 15c.

Asters

Single fall-flowering hardy herbaceous plants thriving in any good garden soil producing masses of dainty and brightly colored blossoms. Dwarf varieties bloom in late spring and early summer; tall varieties in late summer and fall.
Amellus Hybrids. (Italian Asters.) Early. Height 2½ feet. Pkt. 15c.
Michaelmas Daisy. Newest varieties mixed. Plants 3 feet high. Pkt. 10c.
Alpine. Dwarf plants 6 to 10 inches high with large showy bluish-purple flowers with yellow centers. May-June. Pkt. 15c.

Aubrietia (Rainbow Rock Cress)

Showy and beautiful creeping plants, about 6 inches, for borders or rockeries. Flowers of violet, crimson and rose, form a solid mass of color for weeks. Blooms in April and May. Pkt. 10c.

Bellis (English Daisy)

They are semi-hardy and thrive best in a cool, shady place, but do well in almost any soil. Admirably adapted for edgings, borders and low beds, will bloom for years if given winter protection. Height 6 to 8 inches. Mixed colors. Pkt. 10c.

Campanula (Canterbury Bells)

Well known beautiful hardy herbaceous perennials and biennials bearing a great profusion of attractive bell-shaped flowers, thriving best in light, rich soil. Tall varieties are fine for cutting. Heights vary from 9 in. to 5 ft.

Campanula Medium

Canterbury Bells (Campanula Medium) Grows about 3 feet high and bears single bell-shaped flowers in blue, white, purple and pink colors. Mixed colors. Pkt. 10c.

Cup and Saucer type (Campanula Calycanthema.) In this variety the outer petals form a brim, like a saucer. 2 ft. Pkt. 10c.

Carpatica (Harebell). A pretty variety only 9 inches high, producing clear blue flowers on erect wiry stems from June until September. Fine for edging or rockery. Does well in partial shade. **Pkt. 10c.**
Rotundifolia (Blue Bells of Scotland). Purple-blue flowers. 12 inches. Pkt. 15c.
Longistyla. Large purple flowers with long style, 1 to 1½ feet high. Pkt. 10c.
Pyramidalis. (Chimney Bells). Blooms during August-September. Flowers are blue or white, plants about 5 feet. Mixed colors. Pkt. 10c.

Catananche (Cupid's Dart)

Flowers pale violet with dark center. Grows 12 to 18 inches high. A very nice border plant and Everlasting flower. **Coerulea.** Pkt. 10c.

Centaurea (Bachelor Button)

The flower resembles the annual Cornflower. **Montana.** Deep blue. Pkt. 10c.

Cerastium (Snow in Summer)

A pretty perennial plant for edging and rockery. Foliage is silvery and hairy; flowers white, covering plant completely in June. 6 inches. Pkt. 10c.

Coreopsis—Double Sunburst

Coreopsis

A hardy perennial about two feet high that produces an abundance of large, daisy shaped flowers on long stems. One of the best perennials for cut flowers. **Lanceolata.** (Single.) Pkt. 10c.
Double Sunburst. The double flowers are 1½ to 2 inches across, deep golden yellow. Flowers are fine keepers and plants easy to grow. Pkt. 10c.
Double New Gold. (New). Fine golden yellow. Pkt. 10c.

Chrysanthemum Mawii

Only about 12 inches high, rich pink flowers two inches across. Fine for borders or rockery. Pkt. 15c.

Daisy, Shasta

Alaska. A hardy perennial bearing large pure white flowers, in great profusion on long stems, making it fine for cut flowers. Blooms all summer. Height 24 to 30 inches. Pkt. 10c.

Shasta, Conqueror. Flowers as large as Alaska on stems 2 to 3 ft.. Pkt. 10c.

New Giant Double White. Double flowers ranging through semi-doubles to a type though single, forms beautiful large flowers with curled, quilled petals. Height, 2 to 3 ft. Pkt. 25c.

Delphinium (Hardy Larkspur)

Very decorative border plants ranging in height from two to five feet. The colors run from pure white to dark blue. When plants are 15 inches high, they should be staked to prevent breaking down.

Delphinium Hollyhock Strain

Belladonna. This type does not grow quite as tall as most Delphiniums, but they produce more spikes and are more graceful and better for cutting. Flowers are large, light azure blue, plants 3 to 4 ft. high. Pkt. 10c.

Cliveden Beauty. (Improved Belladonna.) Flowers exquisite shade of turquoise blue. 3 to 4 ft. Pkt. 15c.

Belamosum. This is a dark form of the light blue Belladonna; flowers rich deep blue. 3 to 4 ft. Pkt. 10c.

Belamosum Improved, deep blue, large flowers. Pkt. 15c.

Gold Medal Hybrids. Many are double flowered and range in color from pale lavender to indigo blue. Mixed colors. Height, 3 to 4 ft. Pkt. 10c.

Cardinale. "Scarlet Larkspur." Long spikes of scarlet flowers. Seed germinates slowly. Grows 2 to 3½ feet. high. Pkt. 10c.

Iceberg. Pure white, 20-inch spikes, comes true from seed. Plants, 3 to 4 ft. Pkt. 15c.

New Hollyhock Strains.

These remarkable new Delphiniums now furnish flower lovers with something new which has long been desired. The spikes of flowers are of unusual size and stalks much taller than any Delphinium now being offered.

Pacific Giants. This is a most wonderful strain of Delphiniums. The plants are about 5 feet tall, and of branching habit, yet the flower-spikes are unusually well formed and not at all overheavy. Comes in a magnificent range of colors and lovely pastel shades. Mixed colors. Pkt. 35c.

Blackmore & Langdon Strains. The latest and highest development of the hollyhock type. Height, 3 to 5 ft. Finest mixed. Pkt. 25c.

Bodger's Hollyhock Strain. A selection of light shades. Pkt. 15c.

Wrexham's Hollyhock Strain. Flowers in blue, white and pink combinations many of them bicolors. Many spikes are 1½ to 2 inches in diameter. Plants, 4 to 5 feet. Pkt. 15c.

Digitalis, Foxglove

A very interesting family of old fashioned plants, whose culture is so simple as to bring them within the reach of all. It grows in strong clumps and is one of our very fine hardy biennials. Grows 2 to 4 ft. Mixed colors. Pkt. 10c.

Shirley. A giant variety of the Gloxinia flowered type. Flower spikes 4 feet long of purest white to deepest rose colors, handsomely spotted. 5 to 7 feet. Mixed colors. Pkt. 10c.

Dictamnus (Gas Plant)

A bushy perennial about 3 feet high with attractive flower spikes. The plant oils give off a vapor which will ignite if a lighted match is held under a seed cluster on a sultry summer evening. **Fraxinella.** Mixed. Pkt. 10c.

Dianthus (Hardy Garden Pinks)

These old garden favorites with their carnation-like flowers and clove scent are especially valuable for cut flowers. 12 to 18 inches. Mixed colors. Pkt. 10c.

Gaillardia Grandiflora, Blanket Flower

A very free blooming perennial bearing large yellow, or red daisy-shaped flowers. Very easy to grow and will bloom all summer. Splendid for cut flowers. Height, 24 to 30 inches. Mixed colors. Pkt. 10c.

Bremen. Deep coppery scarlet, dark brown disc, narrow golden yellow edge. Pkt. 10c.

The Dazzler. Flowers very large, intense maroon-red and golden-yellow tip on the end of each floret. Pkt. 10c.

Monarch Strain. Finest mixed. Pkt. 10c.

Gaillardia, The Dazzler

Grandiflora Goblin. The Little Goblin Gaillardia is the first really dwarf, compact variety especially suited to the rockery. The neat plants reach a height of about 12 to 15 inches, closely covered with large, showy, yellow bordered deep red flowers. Goblin is fine for edges in the perennial border. Pkt. 15c.

Geum

Geums are hardy perennials and belong to the rose family. They produce dwarf tufted plants from which rise graceful stems, 2 feet high, bearing beautiful double flowers. If flowers are kept cut back, the bloom can be continued from June until September. Flower stems should be dipped in warm water after cutting to avoid wilting.

Mrs. Bradshaw. Of orange-scarlet color, blooming the first year if sown early. Pkt. 10c.

Lady Stratheden. Rich golden-yellow flowers. Pkt. 10c.

Hybrida mixed. Pkt. 10c.

Gypsophila (Baby's Breath)

The blossoms are small, star-like, and borne in feathery sprays, which are highly esteemed for cut flowers, as they lend a most graceful effect when combined in bouquets. Grow 2 to 3 ft.

Paniculata. Single white. Pkt. 10c.

Paniculata. Double white. Pkt. 10c.

Pacifica. Especially hardy. Grows to 4 feet the second year. The tiny pink blossoms flower late. Pkt. 10c.

Repens. Dwarf Baby Breath. Splendid in rockeries. Mixed colors. Pkt. 10c.

Helianthemum (Dwarf Sun Rose)

Low growing plants completely covered with bloom during July and August. Pale rose changing to lilac, then to white. Excellent for rockeries. 8 to 12 inches. **Mutabile.** Pkt. 10c.

Heliopsis (Orange Sunflower)

A new double flowering perennial bearing golden-yellow Zinnia-like flowers from July on. Height about 3 feet. Fine for cut flowers. Pkt. 10c.

Hibiscus (Marshmallow)

Showy shrub-like plants, 3 to 5 feet high, with handsome green foliage, on which large flowers 8 to 9 inches in diameter are borne from July until fall. Hibiscus send up new shoots each year and are perfectly hardy in the Northwest. Red, Pink, White with Crimson Eye or Mixed. Pkt. 10c.

Hibiscus.

Hollyhocks

The Chater's strain produces for the most part, flowers which are densely double, although occasionally some single blossoms are seen among them. The colors range from pure white to darkest maroon, some are bright and gay, others of the softest and most delicate shades and tints. The plants grow 5 to 7 feet in height.

Hollyhocks.

Double Hollyhocks

Chater's Double—All 10c a pkt.

Chamois, deep rose, maroon, salmon rose, scarlet, white, yellow, finest mixed, single and double mixed.

Double Imperator. Large rosette flowers, in charming color combinations. Pkt. 10c.

Double Triumph. Beautifully fringed rosette flowers in many new shades and bi-color combinations. Pkt. 10c.

Single Hollyhocks

Many prefer the single-flowering hollyhocks. They are usually of freer growth than the doubles and present a very handsome appearance. Mixed, pkt. 10c.

Heuchera (Alum Root, Coral Bells)
Does well in any garden soil producing dainty sprays of rose carmine flowers on long stems. Plants grow 15 to 20 inches. Pkt. 10c.

Honesty (See Lunaria)

Iberis (Hardy Candytuft)
Fine for early decorations. Bloom in spring and early summer. Much used for rockeries and cemeteries.
Sempervirens. White 12 inches. Pkt. 10c.
Gibraltica. White flushed lilac. 1 to 2 feet. Pkt. 10c.

Kudzu Vine (Jack and the Bean Stalk)
A remarkably hardy climber that will grow 8 to 10 feet the first year from seed. When established, it will grow 40 to 60 feet a season. Tops from young vines may not live through the winter, here in the Northwest, but as roots get older, tops are more likely to survive. Has Wistaria-like purple blossoms in August. **Puerania, Thunbergiana.** Pkt. 10c.

Lathyrus (Hardy Sweet Pea)
Showy, free flowering, hardy perennial climber, valuable for covering old stumps, fences, etc., continually in bloom. Good for cut flowers. They require a rich deep soil. Grows 5 to 7 feet tall. Mixed. Pkt. 10c.

Lavendula Vera. (True Lavender)
Delightfully fragrant flowers July and August. Used dry for their lasting perfume. Plants grow 12 to 18 inches high. Pkt. 10c.

Lilium Regale (Regal Lily)
One of the most beautiful of all known lilies. Flowers are delightfully perfumed, of white, slightly suffused with pink. Blooms in July. Bulblets from spring planted seeds should be lifted and planted deeper in the fall. These bulblets will flower the following summer. Height, about 3 feet. Pkt. 10c.

Lilium Tenuifolium (Coral Lily)
This is only 24 inches high and one of the earliest to bloom. Flowers are deep scarlet and have recurled petals of waxy texture. Pkt. 10c.

Linum (Flax)
A pretty plant for the border, with light graceful foliage, bearing delicate flowers through the entire summer.
Flavum, (Golden Flax) yellow flowers, very showy rock plant, about 12 inches in height. Pkt. 15c.
Perenne, dainty sky-blue flowers on graceful arching stems. Grows 30 inches high. Pkt. 10c.

Lobelia
Grow 2 to 4 feet in height, bearing long spikes of brilliant flowers from July to September.
Cardinalis, (Cardinal Flower) flaming scarlet. Pkt. 15c.

Lunaria (Honesty or Satin Flower)
A curious biennial chiefly grown for its shiny silvery seed pods, which make a useful winter decoration, arranged with flowers in baskets and bouquets. Grow 18 to 24 inches high. Pkt. 10c.

Lychnis (Rose Campion)
Handsome hardy perennial with brilliant colored flowers. Excellent for borders; blooms first year if sown early.
Viscaria Splendens, (Catchfly) deep rose spikes. 1 foot high. Pkt. 10c.

Monarda (Bee Balm)
Hardy plants of free growth, about 2 feet high with aromatic foliage, brilliant scarlet flowers in July and August. **Didyma.** Pkt. 10c.

Russell Lupines.

Lupine
Forms dense bushes 3 to 4 feet high, of elegant spikes completely clothed to the ground with white, rose and blue fragrant flowers from June to September. Lupines are of the hardiest perennial plants grown, and will thrive in the poorest soil. Mixed colors. Pkt. 10c.

As Lupines are legumes seed should be inoculated with Nitragin. New garden size Nitragin now 10c.

Russell Lupines. This sensational new strain of Lupines has enormous flower spikes 3 feet long, closely set with individual flowers, entire spike opens at one time. Extraordinary range of colors. Plants 3½ to 4 feet high. **Genuine Russell re-selected seed, in grower's original sealed packets with complete cultural directions.** Pkt. 12 seeds, 25c.

Myosotis (Forget-Me-Not)
These dainty little flowers love cool moist soils, and bloom freely in spring and fall. They make beautiful close borders or edgings. They flower the first season from early spring-planted seed, or seed may be sown in late summer or early fall. Grow 8 to 12 inches high.
Alpestris. The Alpestris Myosotis while a perennial needs winter protection. Is mostly treated as an annual; bright blue. Plants 8 inches high. Pkt. 10c.
Palustris. (Hardy Forget-me-not.) Dwarf blue plants that bloom from early spring until fall. Fine for rock gardens or edgings. 10 inches. Pkt. 10c.

Nepeta
An excellent perennial plant for the rock garden, or anywhere. Very compact, producing during July and August masses of beautiful flowers. **Macrantha.** Violet, 2 feet high. Pkt. 10c.

Oenothera (Evening Primrose)
Are elegant plants for growing in an exposed sunny position, either in the border or rockery. Grow 10 to 12 inches high and bear from June until August, large flowers, often 5 inches in diameter.
Missourieusis (macrocarpa). Yellow flowers. Pkt. 10c.

Passiflora (Passion Flower)
Highly interesting herbs and shrubs, mostly climbers that legend and superstition have attached to these plants from the first. The flower was thought to represent the ten apostles present at the Cruciflxion. A beautiful vine for the greenhouse or window. Plant in a sunny place outdoors in summer. Mixed. Pkt. 10c.

Pentstemon (Bearded Tongue)
The plants are pyramidal, 2 to 3 feet high, with erect branches thickly set with flowers 1½ inches long, varying in all shades from rosy-white to purple with white or veined throats. Bloom the first season from spring-sown seed. Flower from July until frost.
Sensation Improved. Colors vary from pink to scarlet and maroon, beautifully blotched and veined with other colors. Pkt. 10c.

Physostegia
These handsome plants flower from July until frost, growing 3 to 4 feet high and bear broad, dense spikes of delicate pink tubular flowers not unlike a giant Heather. One of the most beautiful of our mid-summer flowering perennials. **Speciosa.** Pkt. 10c.

Phlox (Hardy Phlox)
These beautiful hardy border plants are among the most effective subjects in the garden during late summer and early fall. Phlox require a soil that is deeply enriched and plenty of water during the blooming period. Divide plants every four years. We are offering a most select strain of seed.
Decussata. Seed slow and erratic in germinating and the seedlings may not appear for a year. Grow 2 to 3 feet high. **Finest mixed, from newest varieties.** Pkt. 10c.

Physalis Franchetti (Chinese Lantern)
The flower of this plant turns to a bright red giving it the appearance of a Chinese lantern. The stems should then be cut for drying, and unlike other Everlastings, should be hung up in an upright position to allow the lanterns to hang in their natural position. Grow 15 to 24 inches high. Pkt. 10c.

Platycodon (Jap. Bell-Flower)
A member of the Campanula family, with handsome, branching spikes 1 to 2 feet high. Platycodon is considered by many the best bell flower. They bear these large, showy deep-blue flowers continuously from July until frost. Plant grows 12 to 24 inches high.
Grandiflorum. Tall deep blue, 18 to 24 inches. Pkt. 10c.

Poppy, Iceland
Similar to the annual Shirley Poppy but in addition to the white, red and pink shades of the latter, the Iceland Poppy is often a fine yellow or orange color. Plants grow 12 to 15 inches high. Will flower entire season if seed pods are kept picked. Pick when in bud for cut flowers. Bloom the first season from spring-planted seed.

Iceland Poppy Emperor

Yellow Wonder. One of the outstanding introductions of recent years, special mention in the 1937 All-America winners. The stems are unusually long and wiry, 24 inches or longer, and flowers will keep as long as 10 days when cut. Flowers are very large, bright buttercup yellow. Pkt. 15c.
The Empress. (New.) A remarkable new giant poppy, excellent for cutting. Color is a lovely shade of salmon rose and pink. Pkt. 10c.
The Emperor. (New.) The very finest orange Iceland Poppy ever produced. The large flowers are a deep tangerine orange. Bloom first year if sown early. Pkt. 10c.
Sunbeam Finest Mixed. Pkt. 10c.
Double, Finest Mixed. Pkt. 15c.
Sanford's Giants, vigorous growers, long stems, beautiful colors. Pkt. 10c.

Poppy, Oriental
One of the most gorgeous of all perennials, producing in May and June its enormous blossoms, often 6 inches in diameter. The colors range from soft blush and rose to flaming scarlet and richest maroon. The plants are at their best when about 3 years old. Often one specimen will show 10 or 15 blooms. Height of plants, 18 to 30 inches. **All colors mixed.** Pkt. 10c.
Oriental Scarlet. Very striking and glorious color. Pkt. 10c.

PERENNIAL MIXTURE
As many as 20 different kinds of perennials are included in this splendid mixture. Pkt. 10c.

Pyrethrum

Pyrethrum

Bears large daisy-like flowers ranging in color from white to deep red with bright yellow centers; fine for cutting. Blooms in early spring and again in the fall. Plants grow 20 to 30 inches. **Roseum.** Single Mixed. Pkt. 10c. **Roseum.** Single and Double. Pkt. 10c. **Roseum James Kelway.** Deep scarlet. Pkt. 10c.

Rock Garden Mixture

A selection of finest dwarf perennials. Pkt. 10c.

Romneya (Matilija Poppy)

Plant in a well drained, sunny, sheltered location. Grows 4 to 5 feet high. Blooms June to August. Plants must have winter protection in the Northwest. **Coulteri,** White. Pkt. 10c.

Rudbeckia (Cone Flower)

This is a hardy, free flowering and easily grown perennial. The daisy-like flowers are fine for cutting, blooming from July until October.
Newmanii Speciosa, orange-yellow, dark disc, 3 feet. Pkt. 10c.
Purpurea, rosy purple, 4 feet. Pkt. 10c.

Salvia

Treat as an annual here in the Northwest. Plants grow about 3 feet tall, bearing long spikes of deep blue flowers in August. Seed should be sown indoors in February. **Farinacea Blue Bedder.** Pkt. 10c.

Saponaria (Bouncing Bet)

A very showy, trailing, hardy perennial rock plant about 9 inches high, producing in summer small, bright rose flowers. **Ocymoides.** Pkt. 10c.

Scabiosa Caucausica

Resembling in shape the annual Scabiosa, but plants are more vigorous and produce longer and stouter stems as well as larger flowers. This hardy variety bears large blossoms of a delicate lilac, blue pink or white shades. The plants grow 18 to 24 inches high, blooming from July until frost.
Giant Hybrids (Isaac House Strain). Very large fringed and ruffled flowers in various shades of blue. Pkt. 10c.

Scutellaria (Skull Cap)

Pretty blue rock plant, 18 inches high, dense bushy habit, abundance of light blue flowers, June to August. **Coelestina.** Pkt. 10c.

Statice (Sea Lavender)

Produces a mass of tiny blossoms resembling the Baby's Breath, during July and August. These, if cut and dried, last for months.
Latifolia. A charming variety for the border or rockery of purplish-blue color. Fine for bouquets. 1 ft. Pkt. 10c.

Sweet William (Dianthus Barbatus)

A beautiful, free-blooming, hardy perennial producing a splendid effect in beds and borders with rich and varied flowers. Grows 15 to 20 inches high.

Sweet William Single

Single Varieties
Dark Crimson.
Pink Beauty.
Scarlet Beauty.
Newport Pink.
White.
Single Mixed.
All above, Pkt. 10c.
Double Mixed, Pkt. 10c.
Holborn Glory. Single. A range of colors all showing white eye. Pkt. 10c.

Sunflower (Helianthus)

Seeds sown early will produce flowering plants the first year.
Autumn Glory. Bright yellow flowers; blooming in August and September. Height, 3 to 4 feet. Pkt. 10c.
Maximiliana. Flowers single, clear yellow, with several rows of large ray petals and full center. Blossoms late in the autumn. Height, 5 feet. Pkt. 10c.

Thalictrum (Meadow Rue)

The charming rose and white flowers and fern-like leaves are produced in graceful sprays during August and September. Plants about 4 feet. **Dipterocarpum.** Pkt. 10c.

Tritoma (Red Hot Poker)

Although these are hardy plants, many will flower the first year if seed is sown early. They grow 3 to 4 feet high and bear in August blazing, orange-red spikes, blooming until frost. Very fine for cut flowers. **Hybrida.** Pkt. 10c.

Valeriana (Garden Heliotrope)

A hardy plant, rather spreading, about 2 feet high with silvery green foliage, producing large clusters of red or white, very fragrant flowers, from June to October. Fine for bouquets. Valeriana should be in every garden. Mixed colors. Pkt. 10c.

Veronica Speedwell

Plants about 18 inches, bearing small spikes of rich blue flowers most of the summer. Fine for cutting. **Spicata.** Pkt. 10c.

Viola Odorata (Sweet Violets)

Owing to their fragrance and simplicity of culture Violets have met with general favor. If planted in a shaded moist position they will thrive and flower freely. About 6 inches. Pkt. 10c.

Wallflower (Cherianthus)

Half hardy perennials bearing early, dainty yellowish, red or orange flowers, which have a delicious odor. Require winter protection in the Northwest. May be started indoors and set out in May. Height, 15 to 18 inches. Single or double, finest mixed. Pkt. 10c.

Helps in Planting Flower Seed or Plants for Various Purposes and Situations

Annual Flowers for Cutting

Antirrhinum.
Arctotis.
Asters.
Baby's Breath.
Bachelor Buttons.
Blue Lace Flower.
Calendula.
Calliopsis.
Candytuft.
Carnations.
Centaurea.
Cosmos.
Dianthus.
Didiscus.
Gaillardia.
Gladioli.
Gypsophila.
Hunnemania.
Larkspur.
Marigold.
Mourning Bride.
Nasturtium.
Phlox.
Pinks.
Queen Anne's Lace.
Scabiosa.
Schizanthus.
Snapdragon.
Sweet Peas.
Sweet Sultan.
Verbena.
Zinnia.

Fragrant Flowers

Alyssum.
Candytuft.
Carnation.
Cleome.
Heliotrope.
Matthiola.
Mignonette.
Nasturtiums.
Nicotiana.
Scabiosa.
Stocks.
Sweet Peas.
Sweet Sultan.
Sweet William.
Violet.
Wallflower.

Tall Showy Annuals for Backgrounds and Borders

Amaranthus.
Cannas.
Celosia Plumosa.
Centaurea.
Cleome.
Cosmos.
Hollyhock.
Larkspur.
Lupinus.
Marigold.
Matricaria.
Nicotiana.
Poppy, tall.
Ricinus.
Salpiglossis.
Salvia.
Sunflower.
Zinnia.

Flowers for Shade or Semi-shade

Achillea.
Alyssum.
Anchusa.
Annual Phlox.
Aquilegia.
Asters.
Bellis Daisies.
Canterbury Bells.
Centaurea.
Clarkia.
Coreopsis.
Delphinium.
Digitalis.
Godetia.
Heuchera.
Lobelia.
Lupine.
Matricaria.
Myosotis.
Nemesia.
Nicotiana.
Oenothera.
Pansy.
Platycodon.
Salvia.
Schizanthus.
Snapdragon.
Sweet Alyssum.
Sweet Sultan.
Sweet William.
Viola.

For Hot Dry Locations

Amaranthus.
California Poppy.
Dwarf Marigold.
Dwarf Morning Glory.
Godetia.
Ice Plant.
Mimosa.
Phlox.
Portulacca.

House Plants from Seed

Agathea.
Browallia.
Carnation.
Heliotrope.
Lantana.
Marigold, dwarf.
Mignonette.
Mimosa.
Mimulus.
Nemesia.
Passiflora.
Phacelia.
Schizanthus.
Stocks.
Tagetes.
Wallflower.

Best Annuals for Cemetery

Ageratum.
Alyssum.
Coleus.
Geranium.
Lobelia.
Pansy.
Petunia.
Portulacca.

Everlasting or Straw Flowers for Winter Bouquets

Acroclinium.
Chinese Lantern.
Globe Amaranth.
Helichrysum.
Honesty.
Physallis.
Rhodanthe.
Statice.
Xeranthemum.

For Window Boxes, Hanging Baskets, etc.

Alyssum.
Calendula.
Candytuft.
Geraniums.
Lantana, dwarf.
Lobelia.
Nasturtium.
Petunia.

Climbing Vines from Seed

Canary Bird.
Cardinal Climber.
Cobaea.
Dolichos.
Gourds.
Humulus.
Hyacinth Bean.
Ipomea.
Japanese Hop.
Kudzu Vine.
Moonflower.
Morning Glory.
Nasturtium, tall.
Scarlet Runner.
Thunbergia.
Wild Cucumber.

Low Growing Annuals for Edgings and Rockeries

Abronia.
Agathea.
Ageratum.
Alyssum.
Anagallis.
California Poppy.
Candytuft.
Chorizanthe.
Cynoglossum.
Dianthus.
Godetia.
Ice Plant.
Lantana.
Lobelia.
Marigold, dwarf.
Nasturtium, dwarf.
Oenothera.
Pansy.
Petunia, dwarf.
Phlox, dwarf.
Portulacca.
Sanvitalia.
Tagetes.
Verbena.
Viola.
Zinnia, dwarf.

GLADIOLI

The Gladioli are the most attractive of summer-flowering bulbs. They bloom just when the garden needs brightening up. Their bright spikes help the perennial border especially, which so often lacks color at midsummer before its autumn revival.

CULTURE. The Gladiolus thrives in a sunny location. Grows in any good garden soil, but does much better when the latter has been enriched with a fertilizer like Vigoro, Bone Meal or Sheep Manure. If the bulbs are planted at intervals from April to June the blooming period will extend from July until frost. A trench should be dug five inches deep and an inch of sand placed in the bottom to absorb surplus moisture. Set the bulbs 6 to 8 inches apart.

For earliest blossoms, draw 2 inches of soil over the bulbs at first, replacing the rest when the shoots appear. Keep free from weeds and give plenty of water, especially during the blooming period.

Before the ground freezes lift the bulbs. After the tops dry, they should be cut off, the bulbs separated and the small side growths or bulblets, removed. The latter may be handled like the big bulbs. Then the bulbs are placed in paper or cloth bags, sawdust or sand to prevent them from becoming too dry. Keep bulbs in a temperature of about 35 degrees to prevent sprouting.

Golden Dream
A Very Lovely Yellow Gladiolus

FOR CUT FLOWER USE. The spike should be cut as soon as the first flower opens on the stalk, preferably before the dew is off in the morning but never in the heat of the day. Cut the stem about 9 inches above the ground and with as little foliage as possible. The foliage is needed for the development of the new bulb. Place the cut flowers in a deep vase, with at least 8 inches of water. Remove the faded blossoms, cut a little off the stem and change the water daily. Treated in this way the buds will open perfectly.

Napthalene Flakes and Thrip Juice will control thrips; Gladioli worst enemy. **See pages 48 and 49.**

GLADIOLUS, by F. F. Rockwell. It tells how to plant, fertilize, and cultivate; how to harvest and cure; and every other detail needed for success with this popular flower. 45 illustrations, 79 pages, **$1.25.**

	Each	Doz.	100
Aida, best early deep blue	6c	60c	$4.00
Ave Maria, a fresh toned medium blue	6c	60c	4.00
Blonde, apricot shaded peach	6c	60c	4.00
Blue Peacock, medium blue with purple blotch	12c	1.25	...
Bob White, immense white with markings	6c	60c	4.00
Charles Dickens, Dark rhodamine purple, darker near center	6c	60c	4.00
Coronation, beautiful salmon-pink creamy throat	7c	70c	4.50

BEGINNER'S SPECIAL
From the select list of Gladioli listed on this page we offer 25 bulbs, 5 varieties, all named, our selection, for only..... $1

	Each	Doz.	100
Dr. F. E. Bennett, peach-red overlaid with flaming scarlet	6c	60c	$4.00
Dr. Moody, beautiful lavender of large size	6c	60c	4.00
Edith Mason, delicate pink, extra fine	6c	60c	4.00
Elizabeth Swartley, salmon-pink, white throat	5c	50c	3.50
Flaming Sword (Prim.), beautiful brilliant red, many open early	5c	50c	3.50
George Arends, fine salmon-pink, long spike, early	6c	60c	4.00
Gladdie Boy (Prim.), grenadine pink to straw yellow, center gracefully frilled	6c	60c	4.00
Gladness, clear bright orange scarlet	15c	1.50	...
Gloriana, golden salmon, yellow throat	6c	60c	4.00
Gold Eagle, early yellow	6c	60c	4.00
Golden Dream, tall, best pure deep yellow	6c	60c	4.50
Hinemoa, deep rose, flaked with brownish red and bright yellow blotch	10c	1.00	...
Janet, smoky old rose	8c	75c	5.00
John S. Bach, immense salmon orange	12c	1.25	...
Loyalty, large, deep yellow	6c	60c	4.00
Lucifer, bright orange, amaranth crimson blotch. Tall	8c	75c	5.00
Maid of Orleans, milky white, cream throat	6c	60c	4.00
Mammoth White, large pure white	6c	60c	4.00
Margaret Fulton, coral pink, shaded lighter in throat	6c	60c	4.00
Morocco, dark maroon, buds look black, darkest black-red we know	8c	75c	5.00
Mary Elizabeth, creamy white, yellow in throat	8c	75c	5.00
Mildred Louise, marvelous strawberry-pink	6c	60c	4.00
Minnet, a delicate shade of lavender	6c	60c	4.00
Mother Machree, smoky lavender and orange, subdued by neutral gray	8c	75c	5.00
Mrs. Leon Douglas, salmon-rose striped scarlet, lower petals lemon	6c	60c	4.00
Muriel, pale violet blue, large open flowers	6c	60c	4.00
Olive Goodrich, white and pink to cream throat	6c	60c	4.00
Orange Princess, large brilliant orange-salmon	8c	75c	5.00
Paradise, large early apricot. Tall spike	12c	1.25	...
Phyllis McQuiston, deep glowing shrimp-pink	10c	1.00	...
Picardy, sensational shrimp pink	6c	60c	4.00
Primrose Princess, clear primrose yellow. Very large, stately blooms, long spike	6c	60c	4.00
Prince of India, combination of orange-buff salmon and slate. Most unusual	8c	75c	5.00
Professor Van Slogteren, beautiful soft pink with slight carmine markings	8c	75c	5.00
Queen of Bremen, fine medium size lavender-pink	5c	50c	3.50
Red Glory, bright ruffled red. Large flowers	8c	80c	5.00
Rosemarie Pfitzer, creamy white, blushed pink, ruffled	12c	1.25	...
Senorita, large, orange yellow with carmine lines	6c	60c	4.00
Smiling Maestro, deep salmon rose. One of the world's finest	10c	1.00	...
Southern Cross, fine, deep red	6c	60c	4.00
Sweetheart, medium decorative white, pink edge	6c	60c	4.00
White Orchid, creamy white, resembles an orchid	8c	75c	5.00
Wurtembergia, very large red with cream throat	8c	75c	5.00
Mixed Colors, (large size)	4c	40c	2.50
Mixed Colors, (medium size)	2c	20c	1.25

Postage extra. 1 doz., 10c; 5c for each additional dozen. 25 or more of one kind at 100 rate.

WATER LILIES

Water Lilies are one of the easiest plants to grow and no flower in the garden is as fascinating and lovely as the water lily. We give full planting instructions with each order. The following select water lilies are hardy varieties.

Amabalis, Flowers deep pink, almost red in center, which lighten to a silver pink on the tips. Blooms are starry in form, slightly cupped. A very desirable and charming lily. Each.....$1.75

Comanche. Flower opens rich apricot, changing to a deep, coppery bronze. A profuse bloomer. Holds itself well above water surface. Outstanding in every way. Each.....$1.75

Marliacea Albida, Pure white blooms of large size with yellow stamens. Are quite fragrant. The snowy white lilies bloom continuously throughout the season. A splendid variety. Each. $1.00

Marliacea Chromatella, Yellow. The most popular of all water lilies. Blooms are a sulphur yellow and start blooming early, producing an endless succession of flowers. Leaves are handsomely splotched with maroon. Each $1.25

Pink Opal. One of the finest pink lilies for cut flowers. The handsome deep pink blooms are of medium size. The flowers stand well above the water. Each....$1.00

IRIS

Iris should be planted in a sunny location and may be planted in groups or singly. The Iris should be planted in a well drained location as too much moisture, especially in hot weather, may cause the roots to decay. Iris may be planted at any time of the year except when they are in bloom or when the ground is frozen, although the best time for planting is in the early spring or months of July and August.

We are offering the following select list of popular Iris for spring delivery, or orders will be accepted for July or August delivery. The roots or rhizomes are larger in July or August than in the spring. In the following descriptions, Standards signify the three erect or upright curling petals. Falls, the three drooping petals. In the descriptions below, S. stands for Standards; F., for Falls.

Indian Chief Iris

VISIT OUR IRIS SHOW.
During the blooming period of Iris, usually the end of May and June, we have on display in our store a large number of Iris blooms, among them some of the world's newest and finest varieties. Orders for Iris can then be left for August delivery.

Baldwin. An unusual Iris. Its large blooms are rounded and full. Color is soft manganese violet to heliotrope. Each, 30c; 3 for 80c.

Clara Noyes. New to the rainbow are the orange and apricot tints and rose veining of Clara Noyes. A warm colored Iris; very individual. Each, 35c; 3 for 90c.

Columbine. A dainty starched white carried airily on tall well-branched stems. A wonderful Iris for cutting purposes. Each, 25c; 3 for 60c.

Coronation. Rich golden yellow; twice as tall and large as most yellow Iris. Each, 25c; 3 for 60c.

Desert Gold. A large bright yellow of rounded form. Free blooming, early midseason; valuable for foreground plantings. Each, 25c; 3 for 60c.

Dogrose. One of the tallest stemmed iris, near shoulder height. A lovely pink toned iris with oval shaped blooms of a cool clear tone. Free blooming, delicate and refined. Each, 25c; 3 for 60c.

Dolly Madison. A beautiful shimmering lavender and pearly lavender lit up by a bright orange beard. Very unusual. Each, 25c; 3 for 60c.

El Capitan. Huge blooms carried on well-branched stems. This upstanding blue flower measures six inches from top to bottom. Each, 30c; 3 for 80c.

Frieda Mohr. A lavender rose color, very rare. Blooms are beautifully formed and extra large. Strongly recommended. Each, 25c; 3 for 60c.

Grace Sturtevant. A very rich deep velvety brown of great richness and quality. The deep orange beard gives much life to the flower. Each, 30c; 3 for 80c.

Indian Chief. This is an extremely popular Iris. One of the red Iris just introduced less than ten years ago at a price over $20.00. Two tones of red, the standards are lighter with rich velvety falls. It is a colorful Iris. A superb grower and a most satisfactory plant. Each, 25c; 3 for 60c.

King Midas. Bright gold glows from the heart of this warm golden-brown blend. A very distinctive iris of rounded clean-cut form. Especially effective in the garden clump where it is always a glowing mass of color. Each, 25c; 3 for 60c.

King Tut. Brilliant blazing chestnut red brown. One of the reddest and brightest Iris. Each, 25c; 3 for 60c.

Klamath. A bronzed purple of excellent form and huge size. The richness of coloring and the combination of colors is reminiscent of a gorgeous rug. Each, 30c; 3 for 80c.

Los Angeles. A huge satiny white of beautiful form, delicately marked blue which you will admire. Each, 50c.

Midgard. A most delicately colored Iris of soft pink, rose and soft, creamy yellow, fine substance and a most gorgeous color. This Iris is highly recommended and very popular. Mid-season. Each, 25c; 3 for 60c.

Morning Splendor. The finest American Iris. The large flowers are of a rich red tone, perfect form and heavy substance. Besides it has delightful fragrance and borne on tall, sturdy stems. Each, 25c; 3 for 60c.

Rameses. Upstanding giant in tones of golden buff and rosy pink. A clump of several spikes of this variety is stunning in the garden. Each, 25c; 3 for 60c.

Shah Jehan. One of the most sensational novelties. An extravaganza of color; standards dainty cream buff edged lavender, the falls are rich and magnificent, quickly blending from light fawn to glowing copper then to rich chestnut. This in turn changes to lustrous tone of velvety purple. All this climaxed by brilliant orange beard. Each, 40c; 3 for $1.05.

Sir Michael. Known throughout the Iris world as one of the most unusual colored Iris, combining sky blue standards with a rich velvety mahogany purple falls. The entire flower is lighted by the brightest orange gold beard. Each, 25c; 3 for 60c.

William Mohr. A sensational new Iris. Huge globular formed blooms. The whole bloom is veined beautifully manganese violet on pale lilac. Give it a warm sunny location. No other Iris like it. Each, 30c; 3 for 80c.

Winneshiek. One of the finest of the rich velvety blue-black color section with segments unusually broad and lustrous. A touch of ruffling augments its graceful form. A most distinctive lighter margin on rich velvety falls. Each, 35c; 3 for 90c.

(Iris prices are postpaid.)

DAHLIAS

The Dahlia is one of the most popular of garden flowers. Its flowers may be used for garden decorations, house decorations, bouquets, florists' work and exhibition.

CULTURE. An open, sunny location seems to favor them at all times. Dahlias can be planted any time after danger of frost is over, and under ordinary conditions will blossom in from 6 to 8 weeks after they have been planted.

Plant bulb 6 inches deep, flat down, having sprout or eye facing upwards; cover with about two inches of soil. When sprouts are 6 inches high add more soil, making it level with surface. Cultivation is the principal requirement of the Dahlia—the most important of all operations to insure success.

Abbreviations: (C.) Cactus; (S. C.) Semi-Cactus; (F. D.) Formal Decorative; (I. D.) Informal Decorative.

	Each
Amber Queen. (Pompon.) Very fine deep amber	15c
American Eagle. (S. C.) Crimson	15c
Asbury Park. (F.D.) Copper salmon, one shade throughout	15c
Atlantic Ocean. (I. D.) Canary yellow	15c
Barbara Redfern. (I. D.) Old rose and old gold with touch of lavender suffusion	15c
Coquette, (I. D.) Red and gold, thick fluffy flowers	15c
Daddy. (I. D.) Large red	15c
Fairy. (Pompon.) A miniature Jersey beauty, pink	15c
F. W. Fellows. (C.) Orange scarlet	15c
Golden Queen. (Pompon.) Lovely pure rich yellow	15c
Jane Cowl. (I.D.) Bronzy buff and gold. A beautiful Dahlia	15c
Jean Kerr, (B.) Free blooming white	15c
Jean Trimbee. (S.C.) Petunia violet	50c
Jersey's Beacon. (F. D.) Chinese scarlet	15c
Jersey Beauty. (F. D.) Pink. One of the best for cut flowers	15c
Jersey's Radiant. (S. C.) Orange	15c
Jersey's Sovereign. (F. D.) Orange-scarlet	15c
Mary Munns, (Pompon). Fuchsia red, dark orchid sheen	15c
Monmouth Champion. (F. D.) A giant flower of brilliant, glistening, orange flame	15c
Mrs. George Le Bontellier. (Dec.) Deep crimson	75c
Mrs. I. De Ver Warner. (F. D.) Orchid pink, a favorite	15c
Murphy's Masterpiece. (Dec.) Gigantic dark red	1.00
Nellie Austin. (Dec.) Peach red, striped with gold	15c
Phantom. (Dec.) Large purple edged with white	1.00
Rose Fallon. (F. D.) Old gold	25c
Sanhican's Bluebird. (F. D.) Bright violet blue	15c
Shahrazade. (I. D.) Large blooms of deep pink	15c
Snowclad. (Pompon.) The best pure white	15c
The Commodore. (Dec.) Large free flowering, yellow	15c
Thomas A. Edison. (F. D.) A royal purple	35c
White Wonder. (I. D.) This is considered one of the largest and best white Dahlias	35c

Dahlia

SPECIAL DAHLIA OFFER NO. 1.
6 Beautiful Dahlias of the Decorative type, one root of each of the following varieties:

Big Gus, red.	Yellow Colosse, yellow.
Queen Mary, pink.	Rose Glory, rose lavender.
Jean Kerr, white.	E. T. Bedford, purple.

All above for 50c or 60c postpaid within 3rd zone.
We reserve the right to alter this collection (giving equally good or better value) in case an unexpected shortage of any variety develops.

SPECIAL DAHLIA OFFER NO. 2.
12 of those priced 15c for $1.25; or one each of the foregoing 31 varieties, postpaid for $4.75. Cash with order.

CANNAS

Cannas with their rich foliage and brilliant flowers are a big favorite as a beautifier of home grounds and parks.

The Cannas thrive under almost any conditions and if given a little care and attention, will produce an abundance of attractive foliage as well as large spikes of beautiful flowers of unusually bright colors. Their long flowering season insures a constant display of color.

Cannas make the best showing when planted in beds by themselves. The soil should be well fertilized and worked up thoroughly to a depth of 10 to 12 inches.

The bulbs can be set about 12 inches apart and about 4 to 6 inches deep. Mulching with lawn cuttings will help retain the moisture. Start bulbs in pots indoors in March or April. Do not set out until all danger of frost is over; about June 1st here in the Northwest.

The Cannas we offer are not dormant bulbs, but potted plants that have been started in the greenhouse so that they have developed a real live root system. Give them plenty of moisture until they are set out. Add postage to mail orders.

CANNA PRICES, on varieties listed below: Each, 15c; dozen, $1.50.

Ambassador. Foliage bronze, flowers cherry red and very brilliant. Grows 3½ to 4 feet high.

City of Portland. A deep pink which does not fade during the hot weather. A free bloomer. Foliage green.

Eureka. A remarkable free-flowering variety of white flowers, which first appear cream. Foliage green. 4½ ft.

Firebird. Green foliage, deep red blooms, hardy. 4 feet.

Hungaria. Green foliage, rich soft pink flowers. A very prolific bloomer. 4 feet.

Karl Merek. Green foliage, flowers pure yellow with tinge of orange and pink becoming red in throat. Very large flower spike. 4 feet.

King Humbert. Scarlet flowers and bronze leaves. A remarkable Canna. 4 feet high.

Mrs. A. Conard. Large, salmon-pink flowers, green foliage. Grows 4 feet high.

Shenandoah. Rich ruby red foliage with large clusters of salmon-pink flowers. 4 feet.

The President. A rich, glowing scarlet, and immense flowers, produced on erect stalks well above the green foliage. Grows 5 feet high.

Yellow King Humbert. Foliage is a very dark green, flowers a deep rich yellow, softly spotted and blotched with bright red. Grows 4 feet high.

PEONIES

The Peony is a native of Siberia which undoubtedly accounts for its great vigor and hardiness. The ideal flower for the great Northwest since it endures the most intense cold without injury. The Peony is one of the most easily grown, and showiest of the perennial flowering plants.

Conditions of the soil, location and cultivation are important factors in growing Peonies. Peonies may be planted in the spring during the month of April and the early part of May, or in September. Work the soil thoroughly to a depth of 8 or 10 inches, applying at the same time a generous amount of Vigoro or bone meal fertilizer, mixed well into the soil. Plant root in this prepared soil so that the crown will be about 1 inch below the surface. Press the soil firmly around the roots.

Peonies should not be planted any closer than 3 feet apart and should not be close to trees as the roots of the trees take from the soil the nourishing elements that are needed by the Peonies. Peonies do best in a sunny location.

The following selected varieties we offer for spring delivery at very attractive prices, postpaid. Large 3 to 5 eye divisions. We also have Peony roots during September and October.

Whites

Each

Frances Willard. This variety is listed among the world's most beautiful Peonies. It opens an exquisite blush white, with an occasional carmine touch, changing to pure white. Although delicate in appearance, it is of good substance and an excellent cut flower. Midseason..... $1.00

Mme. Emile Lemoine, glossy white, overlaid with a sheen of delicate satiny pink, covered with tiny dots of deeper pink. A rare, beautiful peony; strong grower, free bloomer..... .75

Unnamed White ..... .50

Reds

Karl Rosenfield, a very brilliant and striking variety of dark crimson. Globular, compact, semi-rose type, and very large. A splendid keeper as cut flower. Blooms mid-season ..... .75

Lora Dexheimer, a splendid Peony of intense flaming crimson shading darker at base of petals. Cylinder shape and semi-rose type. Of immense size. Blooms early. A beauty..... .75

Mary Brand, a wonderful crimson variety with a silky brightness. Flowers are very large, semi-rose, and with golden stamens scattered through the center of fringed petals. Flowers mid-season. .75

Unnamed Red ..... .60

Yellow

Primevere, a fine yellow peony. Guard petals creamy white, enclosing a central ball of sulphur yellow. If cut in the bud, as it begins to open, so the flower may develop away from the sun, it will hold a clear yellow color. Very beautiful..... 1.50

Peonies—As Beautiful as the Rose—Hardy as the Oak

Pinks

Each

Mons. Jules Elie, immense, globular, glossy flesh pink, shading to deeper rose at base, silvery reflex enveloping the whole bloom. A beautiful Peony that flowers early, keeps long ..... .75

Sarah Bernhardt, of a semi-rose type, blooming in late mid-season. Guard petals are apple blossom-pink, with center salmon colored. Very fragrant, and a free bloomer. A rare beauty..... .75

Therese, very large, somewhat loosely built; long narrow pointed petals. Early mid-season pink, fading towards the center, and illumined by a golden yellow glow in the depth. A supreme flower for exhibition purposes 2.00

Unnamed Pink ..... .50

Roses—Shrubs—Vines
Bulbs—Trees

Shrubbery

Berry Bushes—Grapes
Fruit Trees

Please Note

Nursery Stock after leaving our premises is beyond our control and we cannot guarantee it to grow. If, however, we are notified before July 1st, that any such stock purchased from us at the regular catalog price during the month of April or May of this year did not grow, we will replace same next spring at one half the original cost. This does not apply to Nursery Stock purchased below quoted prices.

Every Garden Should Have Roses

In the shrubs, fruit trees, berry bushes, etc., listed in the following pages, we are offering only those varieties that are especially hardy for the Northwest. As with our seeds, we take special pains in getting the very best, strong, healthy stock obtainable. Plant shrubbery as early in the spring as you can as conditions then are ideal in establishing a good root growth which is very important in transplanting.

MAIL ORDERS

MAIL ORDERS FOR NURSERY STOCK ARE SENT TO MINNESOTA AND WISCONSIN POINTS ONLY. All prices are F. O. B. St. Paul. If wanted by Parcel Post, add 20% for postage and packing with a minimum of 25c; if by Express or Freight, add 10% for packing.

BENCH ROSE SPECIAL

We offer the following bench Roses, primarily, a one year bloomer. Often they winter over and bloom for several years.

Premier, deep rose-pink.
Templar, red.
Briarcliff, rose-pink.
Ophelia, pink and gold.
Talisman, gold and rose.
Joanna Hill, yellow.

Each 35c; 3 for 95c. Postpaid within 3rd zone, $1.20.

Hybrid Perpetual Roses

These are the hardiest of all roses, and flowers are larger but do not bloom as often as the Tea Roses. Will as a rule have two or more blooming periods a season. Need winter protection.

AMERICAN BEAUTY. A famous, deep rose red flower, popular in the florist shops for many years. The color is a trifle hard to keep in the outdoor garden but its fragrance is superb. Each, 75c.

BLACK PRINCE. Deep blackish crimson, large full and globular. Very hardy and free-flowering. Each, 75c.

FRAU KARL DRUSCHKI. Very large, pure white buds and blooms of perfect form, excellent texture and keeping qualities. Considered the best white rose for general planting. Each, 75c.

GENERAL JACK (General Jacqueminot). One of the most famous of the older roses. Its bright crimson buds and flowers are attractive and fragrant. Each, 75c.

HARRISON'S YELLOW. A big bushy shrub, producing untold quantities of medium sized, semi-double, light yellow flowers in early summer. One of the best hardy yellow roses for shrub and specimen use. Each, 75c.

MRS. JOHN LAING. A soft delicate pink. Fragrant. Flowers over a long period. Each, 75c.

PAUL NEYRON. This old time rose long enjoyed the reputation of being the largest of all. Deep rose, very fragrant. Each, 75c.

PERSIAN YELLOW. The hardy yellow rose of old times. Deep golden yellow, semi-double and very hardy. Suitable for planting in old-fashioned gardens and among shrubs. Each, 75c.

Everblooming Hybrid Tea Roses

From early June until frost these roses will bloom constantly, showing often 20 blooms and buds at a time. They are not as hardy as the Perpetual types.

GOLDEN EMBLEM. Beautiful rich clear yellow fragrant rose. Each, 75c.

GRUSS AN TEPLITZ. Double blooms of brilliant crimson. Unquestionably one of the most useful roses for garden decoration. Each, 75c.

LOS ANGELES. Beautifully shaped fragrant flowers of pale salmon pink richly shaded with deep rose and gold. The buds are long and pointed and long-stemmed. One of the finest roses. Each, 75c.

MISS LOLITA ARMOUR. An exceedingly attractive variety either in the bud or fully expanded flower. The color of the bud is coppery-red shaded with orange and salmon maturing into flowers of golden yellow. Each, 75c.

MME. BUTTERFLY. One of the most popular and finest of the Ophelia type of Rose. Flowers are bright light pink, shaded with gold. Each, 75c.

RED RADIANCE. The globular heavy stemmed "Radiance" duplicated in all respects, except color; being a brilliant crimson. Delightfully fragrant. Each, 75c.

SOUV de CLAUDIUS PERNET. The most pleasing yellow rose ever introduced. Flowers are a comparatively unfading sunflower yellow, deeper toned at center; buds long and pointed. Is a vigorous grower with brilliant foliage and almost thornless stems. Each, 75c.

TALISMAN. Brilliant gold, cerise, scarlet and pure yellow in indescribable richness and combinations make Talisman the most spectacular rose ever produced. A beauty. Each, 75c.

Climbing Roses

AMERICAN PILLAR. A vigorous, single flowering climber of deep rose pink with center of lighter shade. Each, 75c.

CLIMBING AMERICAN BEAUTY. A free climber. Rosy crimson flowers 3-4 inches across, produced freely in June and occasionally throughout the season. Very fragrant. Each, 75c.

CRIMSON RAMBLER. An always popular, very strong growing climber, producing huge clusters of blazing scarlet flowers. Quite the showiest of the small flowering ramblers. Each, 75c.

GARDENIA. A very strong grower with beautiful glossy foliage. Buds are of a rich creamy yellow. Most popular yellow climber. Each, 75c.

PAUL'S SCARLET CLIMBER. A most important addition to the climbing roses; no other rose in any class can compare with it for brilliancy of color which is deep scarlet. Flowers are of large size. Each, 75c.

Crimson Rambler Roses. Extra Hardy—Profuse Bloomer.

Hardy Rugosa Roses

Are very ornamental in shrubbery groups, hedges, or as individual bushes. Need no winter protection.

RED GROOTENDORST (Hybrid Polyantha-Rugosa). The bright red double flowers are freely and continuously produced in large clusters from early June until late fall. It is one of the most suitable plants for everblooming hedge, also desirable for shrubbery and specimen plantings. Needs no winter protection. Each, 75c.

PINK F. J. GROOTENDORST. Identical with the above red variety excepting color, which is a charming clear pink. Each, 75c.

HANSA RUGOSA. A showy hybrid with abundant large, reddish violet flowers. Each, 75c.

SIR THOMAS LIPTON. The snowy white flowers are double and produced freely through the summer and fall. Each, 75c.

Shrubs

ALMOND, PINK FLOWERING. Rose-like pink flowers in early spring. Should be planted deeply to prevent sprouting of the plum root on which for hardiness, this variety must be grown. One of the most beautiful early flowering shrubs. 3 to 4 feet high. Each, 75c.

BEAUTY BUSH. A very handsome hardy shrub, growing 6 to 8 feet high, resembling the Weigelia and Honeysuckle, bearing an amazing lot of pale pink bell-shaped flowers in June. A fine shrub. Each, $1.00.

BUTTERFLY BUSH (Buddleia magnifica). A shrubby perennial sometimes called summer lilac. Blossoms borne in long racemes and are rosy lilac in color with orange centers. A fairly rich soil, sunny position and abundance of water are essential for the successful culture of the Buddleias. New growth starts from roots each year. Grows 3 to 4 feet high. Each, 75c.

Almond, Pink Flowering

CRAB, BECHTEL'S DOUBLE FLOWERING. Covered in spring with fragrant double rose-like pink flowers. A splendid small lawn tree. Grows 15 feet tall. Each, $1.25.

ELDER, GOLDEN (Sambucus aurea). A shrub of medium height with yellow foliage and white flowers. Valuable for group planting because of its contrast in color. Grows 7 feet tall. Each, 50c.

FLOWERING PLUM (Prunus trioba var, plena). A showy and interesting shrub, bearing in the spring, on its long slender branches a wealth of large pink double flowers. One of the finest spring blooming shrubs. Grows 5 feet high. Each, 75c.

HIGH BUSH CRANBERRY (V. opulus). A very ornamental shrub with white flowers in late spring, followed in autumn by bright scarlet edible berries which remain until early winter. Grows 8 feet tall. Each, 75c.

HONEYSUCKLE, RED. (Lonicera tatarica siberica). Very hardy, good for hedge or background for low growing shrubs. Fragrant red flowers in May and June, followed by red berries. Grows 8 feet high. Each, 50c.

Hydrangea Paniculata Grandiflora.

HYDRANGEA (Paniculata grandiflora). One of the showiest of autumn shrubs bearing conical flower heads of creamy white which later change to pleasing shades of red and pink in August and September. Always in demand for home yard planting because of the large flowers when most other shrubs are out of bloom. Grows 4 feet high. Each, 75c.

HYDRANGEA SNOWBALL. (H. arborescens grandiflora). Heavy snowball-like flowers of white from late June to frost. Should have plenty of water. Will stand partial shade. Often used for solid low borders. Grows 3 to 4 feet high. Each, 75c.

FERTILIZED EARTH

This is rich soil, specially enriched with fertilizer, and prepared for house plants, window boxes, etc. Is thoroughly mixed and cured to give the best results to house plants and to prevent crusting which stunts or kills so many house plants, planted in ordinary soil.

10 lbs. (enough for 6—5-inch pots) $0.25
100 lbs. 2.00

LILAC, Common Purple. These are the old-fashioned Lilacs. Very hardy. 2 to 3 feet. Each, 50c.

LILAC, PERSIAN (Syringa persica). A beautiful shrub with slender, arching branches and narrow leaves. Pale purple flowers in May. Grows 7 feet. Each, 75c.

LILAC Rothmagensis (Rouen Lilac). Grows 10 to 12 feet high. Late blooming reddish purple flower. Delicately formed leaves. Each, 75c.

LILAC, Villosa. Dwarf, broad leaved, blooms pinkish. Each, 75c.

LILAC, Belle de Nancy (French). Large, double flowers of deep pink. Each, 75c.

MOCK ORANGE (Aureus). Bright golden yellow foliage. Grows 3 ft. high. Each, $1.00.

MOCK ORANGE (Coronarius). Orange scented, creamy white flowers in May and June. It is a strong growing shrub and like all Mock Orange is one of the best shrubs for situations which are partially shaded though preferring sun. Grows 7 feet tall. Each, 50c.

MOCK ORANGE (Mont Blanc). A new variety bearing large fragrant flowers. A good shrub for house foundation planting. Grows 4 feet high. Each, 75c.

MOCK ORANGE (Virginal). A magnificent new variety. Large, fragrant, pure white flowers bloom over a very long period. Grows 4 to 5 feet high. Each, 75c.

PURPLE LEAF PLUM (Newport). A beautiful dark purple leaved variety of plum carrying its rich color throughout the season. Grown principally for its ornamental value. Valuable in group planting where variation in color is desired. Each, $1.00.

SNOWBERRY, RED (Coral Berry). A native shrub that is hardy and easy to grow where other plants fail. Red to purplish red berries in late summer. Stands sun or shade and poor soil. Prune in early spring. Grows 2 to 3 feet high. Each, 50c.

SNOWBERRY, WHITE (Symphoricarpos racemosus). A compact, graceful shrub with slender arching branches. The pink flowers are succeeded by large, oval pure white berries in September that persist well into the winter. Stands shade well. 2 to 3 feet high. Each, 50c.

SPIREA BILLARDI (Pink Summer Spirea). Pink flowers in terminal spikes during July and August. Grows 5 feet high. Each, 50c.

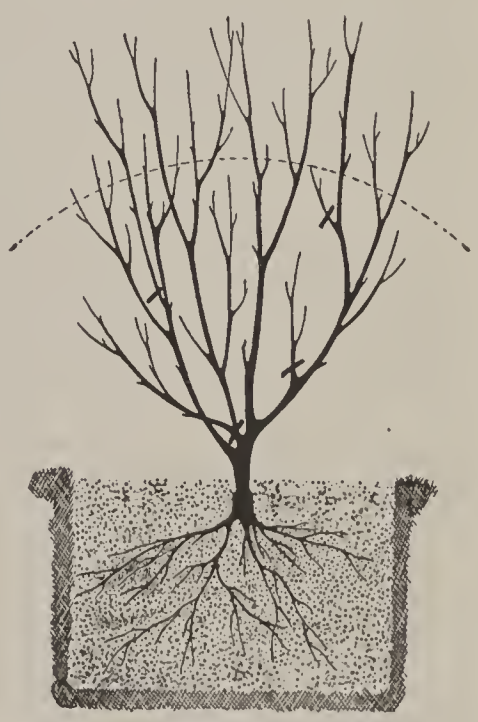
How To Plant Shrubs

Do not expose roots to air or light more than necessary. If roots are dry they should be soaked in water several hours before planting. Keep roots covered until you are ready to plant. Remove all covering before placing roots in the ground.

Prune shrubs back at least one-third before planting as shown by dotted line in accompanying diagram. When branches are crowded or may rub against each other it may be necessary to cut out some additional wood as indicated by black lines.

Then dig the hole; larger than the root system of plant.

Place plant in hole, spreading out roots naturally. Fill in hole about two-thirds full of dirt, shaking shrub up and down to settle dirt.

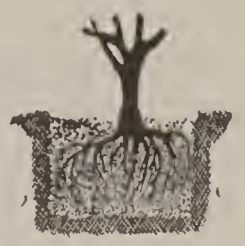


Planted the Right Way
Roots Set Naturally

Now fill the hole with water, (this is important) and allow to settle, after which fill in the rest of the soil to surface level.

A liberal handful or two of bonemeal as a top dressing is very helpful. Water thoroughly at intervals during the first season.

Space tall shrubs such as Lilacs 4-6 feet apart, the medium height shrubs, such as Spirea Van Houttei, 3-4 feet apart, and the dwarf plants, such as Barberry, 2-2½ feet apart. Never plant closer than 2 feet to house foundation.



The Wrong Way
Too Crowded

SPIREA, ANTHONY WATERER. Brilliant rosy carmine flowers. Blooms all summer. Always blooms the first season. Makes a fine color combination planted with Hydrangea arborescens. Grows 2 feet high. Each, 50c.

Spirea Van Houttei Makes a Beautiful Bush.

SPIREA VAN HOUTTEI (Bridal Wreath). A very hardy and effective shrub, with graceful arching branches well covered in late May with a profusion of large pure white flower clusters. The most popular and most planted of all shrubs. Will grow in almost any location. Grows 5 to 6 feet high. 2 to 3-foot size, 25c each; 10 for $2.25; 3 to 4-foot, 35c each; 10 for $3.15.

WEIGELIA EVA RATHKE. Large crimson flowers. Blooms throughout the summer and autumn. Needs winter protection. Grows 4 feet high. Each, 75c.

Hedges

Plant living, lasting fences. Walls and fences are generally expensive but a fine green hedge may be had at a small cost and will add much to the coziness of the place in summer and winter.

ALPINE CURRANT. A very dense-growing hedge with fine dark green leaves. Will grow to a height of 3 or 4 feet. The yellow flowers which open in May are very fragrant. Very desirable where the soil is somewhat dry. 12 to 18 in., each, 35c; 10, $3.15; 100, $30.00.

BUCKTHORN. Best sheared low hedge, or free growing tall hedge. May be trained from 18 inches up. Very hardy. Each, 35c; 10, $3.15; 100, $17.50.

CARAGANA ARBORESCENS (Siberian pea tree). An excellent hedge plant. Especially suited to light soils and sunny locations. The beauty of its foliage makes it desirable for planting in groups or in masses behind other low growing shrubs. Bright green pea-like leaves. Grows 8 to 12 feet high. Each, 40c; 10, $3.50; 100, $15.00.

COTONEASTER. When a hedge of medium height is wanted this is one of the best to plant. The leaves are a rich green and very glossy which adds to the beauty of the plant. 2 to 3-foot, each, 50c; 10, $4.50; 100, $27.50.

JAPANESE BARBERRY. Best dwarf hedge, attractive and effective. Each, 40c; 10, $3.60; 100, $25.00.

LILAC, Common Purple. 18 to 24 inches, each, 30c; 10, $2.70; 100, $17.50.

Ornamental and Shade Trees

AMERICAN ELM. A splendid tree for boulevard planting or small yard. Graceful and of upright habit. Grows 80 to 100 feet high. 1½-inch caliper trees, each, $2.00.

BASSWOOD OR LINDEN. Has large heart-shaped leaves and fragrant white blossoms. 8 to 10-foot trees, each, $1.50.

CHINESE ELM. This new shade tree is becoming very popular on account of its rapid growth, resistance to disease and ability to thrive in almost any situation. A tree of rare beauty. Grows 75 feet high. 1½-inch caliper, each, $2.00.

MAPLE, SCHWEDLER'S. A very ornamental shade tree. The foliage is dark red in the spring and gradually turns to green later in the season. 6 to 8-foot trees, each, $3.00.

MOUNTAIN ASH (European). The combination of foliage and clustered fruits make this a very beautiful lawn tree. Bright red berries, white flowers. Used as specimen on the lawn or as an accent in the border. Grows 30 feet high. 6 to 8-ft. trees, each, $2.00.

POPLAR, BOLLEANA. A tall, slender tree. Leaves are dark green on the upper surface and white beneath. The bark is silvery gray. Grow 80 feet high. 6 to 8-foot, each, $1.25.

POPLAR, LOMBARDY. Very similar to the Bolleana except in color of leaf and bark which is green. Grows 100 feet tall. 6 to 8-foot, each, 75c.

Hardy Climbers

BOSTON OR JAPANESE IVY (Ampelopsis Veitchei). The grandest hardy climbing vine for covering houses, churches, schools, etc. Its glossy, ivy leaves make a rapid growth. The tendrils cling firmly to the smoothest surface of rock or brick. Each, 60c.

ENGELMAN'S IVY (Ampelopsis engelmanni). There is no better vine where one wishes a clinging vine. This ivy grows very fast and clings to brick, stone or plaster. Perfectly hardy in Minnesota. Each, 50c.

SCARLET TRUMPET HONEYSUCKLE. (Lonicera sempervirens). Trumpet-shaped flowers of bright scarlet. Blooms more or less all summer. Each, 50c.

Bulbs and Roots

AMARYLLIS. A fine strain in a wide range of beautiful colors. They are easy to grow in the house. Mixed only. Each, 45c.

AMARYLLIS, HARDY (Lycoris Squamigera) also called Magic or Wonder Lily. Has large, fragrant pink blooms during summer. Each, $1.00.

AURATUM LILY. Flower heads are large with broad petals gracefully recurved. White, thickly studded crimson maroon with a wide gold band down the center of each petal. Each, 25c and 40c.

BATEMANNIAE LILY. Gorgeous deep apricot blooms in July. Each, 25c.

BEGONIA. Tuberous rooted. These profusely-flowering pot plants are deservedly popular for garden, flowering all summer. Each, 30c; doz., $3.00.

BLEEDING HEARTS (Dielytra). One of the most delightful of all the early spring flowering plants, bearing numerous rosy-red, heart-shaped flowers in drooping racemes. Grow 2 feet high. Potted plant, each, 50c.

CINNAMON VINE. Well known climber; quick grower, with beautiful glossy heart-shaped leaves and sweet-scented flowers. Vines will grow 25 to 40 feet in a season. Each, 10c.

ELEGANS LILY. Very hardy, dwarf Lilies thriving in any garden and producing large, erect flowers of various shades of yellow, orange or red. Grow from 1½ to 2 feet high and bloom during June and July. Each, 25c.

GLOXINIAS. Showy flowering bulbs for the window, garden or conservatory. Each, 35c.

HENRYI LILY. Rich apricot yellow flowers with brown spots during August and September. Each, 25c.

ISMENE CALATHINA (Peruvian Daffodil). A grand summer flowering bulb, producing with great freedom large Amaryllis-like, pure-white, fragrant blossoms. Exceptional for cut flowers. Each, 25c; doz., $2.50.

JAPONICUM LILY (Krameri). Flowers a lovely clear pink, often shaded blush. Blooms in June. Each, 25c.

MADEIRA VINE. The old "Climbing Mignonette." Prized on account of its rapid growth and freedom from insects. Thick, glossy leaves, and long, hanging stems of feathery, fragrant, white flowers. Each, 10c.

OXALIS. They produce an unbroken row of foliage about one foot high in continuous bloom. The colors are white, red or pink. Mixed only. Each, 5c.

REGAL LILY. This beautiful new species is acknowledged to be the finest of all hardy Lilies. Pure white, shaded pink on outside of petals. Blooms early in July. Each 25c.

RUBRUM LILY. White shaded and spotted with rose and black. Flowers in August. One of the most beautiful of all Lilies. Each, 25c and 40c.

TIGER LILY. The Tiger Lily with its showy spotted red-orange flowers blooms in August. Very easy to grow, thriving in full sun in any soil. Each, 25c.

TIGRIDIA. Pavonia. Mexican bulbs producing showy, large, oddly-shaped blooms of gorgeous beauty, in red, orange, yellow, etc. Grow 18 inches high, flowering all summer long. Handle the same as Gladiolus. Each, 15c.

TUBEROSES (Dwarf Double Pearl). Pure white. One of the most delightfully fragrant and beautiful of the summer-flowering bulbs. Plant as soon as the ground becomes warm. Each, 6c; doz., 60c.

Cotoneaster Makes a Beautiful Hedge. Very Hardy.

Clematis

No other climbing plant equals in attractivencss the beautiful flowering Clematis. Plant with crowns 3 inches below surface of soil. Provide good drainage.

JACKMANI. Broad-petaled flowers of violet-purple. The most popular and hardiest of the blue-flowering Clematis. Potted plant, each, $1.25.

Gooseberry Bushes

COMO (Minn. No. 43.) A vigorous grower, very productive, nearly thornless, perfectly hardy and is disease-resistant. Fruit large and green in color when ripe. Each, 40c; 10 for $2.25.

PERKINS. The berries are highly productive, very large, measuring one and one-half inches long and one inch wide. The color is light green turning to golden yellow at maturity. The flavor is pleasantly sweet and of best quality. Each, 50c; 3 for $1.35.

Raspberry Bushes

CHIEF. This new raspberry was originated at the Minnesota State Fruit Breeding Farm, and has already won fame for its fine quality and earliness. It is 10 days earlier than Latham. On test plots it has out-yielded all others. Dozen, $1.00; 100, $3.65; 1,000, $26.65.

LATHAM (Minn. No. 4). The most popular red raspberry grown in this section of the country. A late large, bright red raspberry of good quality. It is entirely hardy in the Northwest. Doz., $1.00; 100, $4.15; 1,000, $29.50.

Currant Bushes

RED LAKE (Minn. No. 24). This new currant promises to replace all other varieties in the cherry currant, class. Bush is more upright and yields large berries borne on long, well filled bunches. Each, 50c; 10 for $4.50.

PERFECTION. A very popular variety. Berries uniformly large, clear red in color and good flavor. Large clusters. Recommended as one of the best home garden varieties. Each, 50c; 10 for $4.50.

Strawberry Plants

Prices subject to plants being available.

DUNLAP. Mid-season. One of the best known and most widely grown strawberries in the north and eastern half of the United States. 25 for 50c; 100, 90c; 1,000, $5.00.

MASTODON (Everbearing). Grows easily on any soil, producing very large berries of fine flavor, all summer and all fall. The ideal berry for the home garden. 25 for $1.00; 100, $2.00; 1,000, $15.00.

PREMIER. One of the earliest worth while Strawberries, bearing large, bright red, firm berries of fine texture and flavor. 25 for 50c; 100, $1.25; 1,000, $6.75.

WAYZATA (Everbearing). A hardy, disease and frost-resistant variety. Starts bearing about August 1st. Fruit equal to the best June berries. 25 for $1.25; 100 for $3.75; 1,000 for $25.00.

Grape Vines

AGAWAM. A large, dark red grape; pulp soft and sweet. Ripens early. Each, 40c; 10 for $2.25.

BETA. The "standard" hardy grape. The most widely grown and probably the most profitable grape in the Northwest. An excellent juice grape. Ripens early September. Each, 25c; 10 for $1.75.

CAMPBELL'S EARLY. Hardy, vigorous and profuse bearer of thickly set handsome, large, round grapes of light purple, rich and sweet. Each, 40c; 10 for $2.25.

CONCORD. The most satisfactory of the tender grapes for Minnesota conditions. A Vigorous grower and heavy producer. Concord is recognized everywhere as a standard variety. Each, 25c; 10 for $1.75.

MOORE'S EARLY. Similar to Concord in looks and quality, but ripens about two weeks earlier. Vines are hardy and good bearers. Each, 40c; 10 for $2.25.

NIAGARA. The standard white grape occupying the same position among the white varieties as Concord does among the blue-black. Semi-hardy in Minnesota. Each, 40c; 10 for $2.25.

ASPARAGUS ROOTS

The easiest way to obtain an asparagus bed is to set out the roots. Do not cut any later than June 20th until the 3rd or 4th year.

In preparing the bed for asparagus roots the soil should be worked up at least 12 inches deep and a very heavy application of well-rotted manure or commercial fertilizer should be given. Make furrows ten inches deep and spread roots 18 inches apart in row and cover with two inches of soil gradually filling as shoots appear until surface is level.

One-year-old. Dozen, 20c; 100, $1.00; 1,000, $8.00.
Two-year-old. Dozen, 30c; 100, $1.50; 1,000, $10.00.

Postage 10c for first doz.; 5c for each additional doz.

Apple Trees

ANOKA. One of Prof. Hansen's valuable introductions to horticultural trade. Bears when two years old. Produces a large apple of fine flavor which matures earlier than the Duchess. Each, $1.00; 10 for $9.00.

BEACON. A new apple developed by the Minnesota Agricultural University. A deep red apple of good size and quality that ripens early. Each, $1.00; 10 for $9.00.

DELICIOUS. A very high quality apple suitable for southern Minnesota. Each, 75c; 10 for $7.00.

DUCHESS. Season, July and August. A vigorous growing, hardy tree. Fruit is large greenish yellow striped with red. The standard early apple for the Northwest. Each, 75c; 10 for $7.00.

ERICKSON. Season, early. Fruit large and bright red in color. Especially recommended for northern sections of Minnesota or Wisconsin. Each, 75c; 10 for $7.00.

HARALSON. Season, January to April. Has been aptly called the Northwest's best winter apple. Tree vigorous and very productive. Each, 75c; 10 for $7.00.

McINTOSH. Season, October to January. One of the finest apples grown. Because of its brilliant deep red color, delicious flavor, crisp, snow-white flesh and distinct pleasant aroma many people prefer it to all other varieties. Each, 75c; 10 for $7.00.

NORTHWEST GREENING. Season, November to June. Fruit may be kept in ordinary storage as long as any other variety. Splendid for cooking. Not as hardy as Pattens Greening. Each, 75c; 10 for $7.00.

PEERLESS. A fall apple of medium size, yellowish green color with splashes of carmine. Flesh, yellowish white. Each, 75c; 10 for $7.00.

WEALTHY. Season, September to January. One of the best market and home orchard varieties for Minnesota. Fruit medium to large, beautiful red in color and good flavor. Each, 75c; 10 for $7.00.

Hardy Cherry Trees

COMPASS. An especially fine cherry for preserving. Fruit is a bright red, juicy, tart flavor. Hardy in the Northwest. Each, 75c; 10 for $7.00.

NICOLLET. The fruit is almost a true cherry. When canned one cannot detect the difference. Each, 75c; 10 for $7.00.

ZUMBRA. Late mid-season. A hybrid of the sweet, wildpin, and sand cherry. Should be thoroughly ripe before picking. Each, 75c; 10 for $7.00.

Zumbra and Nicollet Cherries should be planted near each other for most satisfactory pollination.

Crab Apple Trees

DOLGO. It is absolutely hardy and very prolific. Producing an abundance of small red crabs, which make a perfect jell even when fully ripe. The trees are free from blight and make a beautiful ornamental tree with a mass of red fruit. Dolgo is called the perfect crab. 5 to 6 ft., each, $1.00; 10 for $9.00.

FLAME. Primarily an ornamental crab. Tree is compact in growth and of medium size, especially suitable for lawn planting. Fruits are small but make excellent red jelly. Each, $2.00.

FLORENCE. The best general purpose crab. Good for canning, pickles and jelly. Each, 75c; 10 for $7.00.

HOPA. A very ornamental tree. Red blossoms completely cover the tree in early spring. Fruit is small, red inside and out. Each, $1.25.

HYSLOP. Dark rich red fruit of large size and sub-acid flavor. Each, 75c; 10 for $7.50.

VIRGINIA. Very hardy and a vigorous grower, does not blight, fruit good for pickling or jelly. A prolific, annual bearer. Each, 75c; 10 for $7.00.

WHITNEY. A fine crab for eating purposes or sweet pickles. Fruit of red color. Each, 75c; 10 for $7.00.

Plum Trees

EMBER. An outstanding large late plum. Does not shake off of tree easily and is a good keeper. The color is a beautiful yellow blotched with red. Each, 75c; 10 for $7.00.

HENNEPIN. A mid-season, medium size fruit of bluish color and delicious flavor. Each, $1.00; 10 for $9.00.

MONITOR. Late mid-season. It produces a large beautifully formed tree of upright spreading growth, is very vigorous and hardy. Fruit large, red, firm fleshed and of excellent quality. Each, 75c; 10 for $7.00.

RED WING. Mid-season. One of the largest of the new plums. Outstanding because of its unusually large, fine appearing, deep red fruits of high quality. Hardy in all parts of Minnesota. Each, 75c; 10 for $7.00.

TONKA. A very productive variety bearing large, round, red fruit of firm flesh and good quality. Each, 75c; 10 for $7.00.

UNDERWOOD. One of the best plums for general growing. The fruit is large, of an attractive red color, with a firm, juicy, golden yellow flesh. Season, late July and early August. Each, 75c; 10 for $7.00.

WANETA. Prof. Hansen's best plum. Very large, dark red overlaid with blue. Fruit of splendid flavor. Hardy and a heavy bearer. Each, 75c; 10 for $7.00.

FIELD SEEDS

FIELD SEED PRICES

Owing to the uncertainty of prices at the time of printing this catalogue, no prices are quoted on Field Seeds in this book but will be given on Special Field Seed Price Lists issued during the season.

See Yellow List enclosed with Catalogue.

ALFALFA

Selection of Alfalfa Seed Is Most Important

Poor seed is a primary and great cause of a poor stand. In buying Alfalfa Seed the highest priced seed is often the cheapest. The loss is much greater in using seed of poor quality, than the difference in cost of the seed. This loss comes from the labor thrown away, the stands lost and yields sacrificed by its use, as well as the final expense in getting rid of the weed seeds introduced.

Inoculation is necessary. Inoculation means putting or planting in the soil, nitrogen-fixing germs or bacteria without which the Alfalfa cannot flourish—this in spite of soil having had previously, inoculated crops.

Gould's Reliable Grimm Alfalfa

Grimm is undoubtedly the variety best adapted to our Northwestern climate. Grimm Alfalfa has the hardiness to withstand our northern winters, and is recommended by leading authorities and experiment stations as being the one to plant. Although the cost of the seed is generally much higher than that of ordinary Alfalfa, we consider it the cheapest in the end. **See our Special Field Seed price list for prices.**

Minn. Variegated Alfalfa

This Alfalfa, which is grown in Minnesota, is a very fine strain of Alfalfa and can be grown with absolute certainty of its being hardy and sure to produce an abundant crop the second year from planting. **Prices are listed on Special Yellow price list.**

BUILD UP YOUR SOIL

Inoculate Your Legumes with NITRAGIN

Make the most of your seed, soil and labor. Don't let legumes rob your soil—be sure they are soil builders.

Remember legumes NOT Inoculated are "SOIL ROBBERS" but legumes WELL Inoculated are "SOIL BUILDERS." Play safe!

INOCULATE WITH NITRAGIN

NITRAGIN is an approved, moist humus culture — tested and guaranteed — easy to apply — packed with Billions of fresh bacteria — the cheapest legume crop insurance money can buy. Directions on every can.

NITRAGIN INOCULATION PRICES

When Ordering, ALWAYS State Name of Seed

ALFALFA, all CLOVERS

Size		Retail
½	bu. ea.	$ .30
1	bu. ea.	.50
2½	bu. ea.	1.00

PEAS (All Varieties)
VETCHES (All Varieties)

½	bu. ea.	$ .25
1	bu. ea.	.40
1⅓	bu. ea.	.60
5	bu. ea.	1.70
12½	bu. ea.	4.00

BEANS
String, Wax, Kidney

½	bu. ea.	$ .25
1	bu. ea.	.40
5	bu. ea.	1.70

LESPEDEZA Hulled or Unhulled

Size		Retail
1	bu. ea.	$ .30
2	bu. ea.	.50
5	bu. ea.	1.00

SOYBEANS, LIMA BEANS, COW PEAS and PEANUTS

1	bu. ea.	$ .30
2	bu. ea.	.50
5	bu. ea.	1.00
10	bu. ea.	1.60
25	bu. ea.	3.00

GARDEN SIZE
Garden Peas and Beans
Sweet Peas and Lupines
Enough for 4 lbs. seed
Retail Price 10c each.

NITRAGIN—Oldest and Most Widely Used Inoculator in America

CLOVER SEED

Medium Red Clover

This is the recognized standard of the clover family. It produces two crops each year. The first is generally harvested for hay when in full bloom. The second crop may be harvested for seed, cut for hay, or plowed under for fertilizer. **Refer to Special list for prices.**

Alsike or Swedish Clover

One of the hardiest varieties known. It is perennial and does not winterkill. It will do better on moist land than any other variety of clover, and is suitable for either hay or pasture. When sown with other grasses, it forms a thick undergrowth and greatly increases the yield. It is frequently sown both with medium Red Clover and with Timothy, and the quality of hay thus produced is excellent. It is fine stemmed and leafy and quickly cured. It makes a very profitable seed crop in many sections of the Northwest. **See Special price list for prices.**

Mammoth Red Clover

This variety is grown mostly for pasture and for soiling. It is a very vigorous grower, but is not desirable for hay unless cut when quite young. **Prices quoted on Special price list.**

White or Dutch Clover

A low close growing clover, with round white heads. Very fragrant and desirable for beautifying the lawn. It will stand close cutting and very rapidly throws up an abundance of leaves and blossoms. It is usually better to sow with other grasses. Does well on most any soil. **Prices given on Special list.**

Sweet Clover, White Blossom

This variety is the one most generally referred to when sweet clover is mentioned. It makes the most abundant growth of any of the clovers. Because of its dense growth and enormous root system, it is a very valuable soil improving crop. While it is a biennial and normally only grows for two years it will generally reseed itself if allowed to grow to maturity. Ohio Extension Bulletin No. 55 says that an acre of sweet clover will add as much nitrogen to the soil as 20 tons of manure. **See Special Field Seed price list for prices.**

Sweet Clover, Yellow Blossom

This variety grows finer and more spreading than the white and is not so tall. It matures more quickly than the White Blossom and for a second season the hay crop is probably preferable to White Sweet Clover because of its finer stems. **Refer to Yellow price list for prices.**

REED CANARY GRASS

An excellent, hardy, perennial grass especially adapted to low lands where other grasses will not thrive. Will produce two crops a year after the first year. The hay is as good as Timothy and is relished by horses and cattle. Sow 4 to 6 pounds to the acre broadcast or 2 to 3 pounds with drill. **See Yellow list for prices.**

GRASSES

Kentucky Blue Grass

Will outlive any other grasses for pasture or lawn, but should not be cut or pastured too closely in extremely hot, dry weather. The seed is very slow in germinating, therefore, it is advisable to plant with other varieties of quicker growing habits. Makes a sweet and nutritious pasture for all stock. **See Special list for prices.**

Rye Grass

Is a very quick growing grass and for that reason makes an excellent pasture. It thrives on rich, moist land, where from three to four cuttings may be made in a season. Grows very quickly and will stand close pasturage. **See Special Field Seed price list for prices.**

Red Top

As a hay crop Red Top is next to Timothy in importance. It will do the best on rather moist soil, but will thrive on most any soil. It is a good variety to sow with Timothy or Clover for meadow or pasture, and is more permanent than either of the other two. **Prices quoted on Special Yellow price list.**

Meadow Fescue

Especially suited for pasture and is also fine for hay. Succeeds even in poor soil and will endure severe freezing. The hay is very nutritious and cattle thrive on it whether it is dry or green. **Prices quoted on Special Field Seed price list.**

Orchard Grass

Is an early fibrous rooted perennial. Its rapid growth makes it very desirable for pasture. Withstands droughts better than most grasses. Will thrive in the shade such as in orchards and lanes. When closely cropped it grows up quickly, and is ready for grazing again in 10 to 12 days. **See Special list for prices.**

Bromus Inermis
This is a grass that has no equal for hardiness and drought resistance. It will grow in any kind of soil and in any kind of weather. Produces an abundant hay crop, and makes an excellent pasture. Brome Grass thickens up rapidly by underground roots or stems. A thin stand thus improves quickly. It forms a dense sod six to eight inches thick, thus binding the soil together and preventing it from being wind blown. **For prices see Yellow Field Seed price list.**

Timothy
The principal thing to look at when about to sow Timothy, is the quality of the seed. Our reliable seed is tested, and is of superior quality. Ten pounds of good Timothy seed is sufficient for one acre making an inexpensive crop to seed. **Prices given on Special Field Seed price list.**

Timothy and Alsike Mixed
For those who prefer to sow Alsike Clover and Timothy together, we have a mixture that has the right proportions for growing a splendid hay crop. **See Special Field Seed list for prices.**

MILLET
Millet is grown almost exclusively in these northern states for hay only, and we find that southern grown millet seed will produce a much heavier crop of finer hay than that grown from northern seed. We therefore offer only true southern grown seed in our millets.

German Millet
This variety is the most in demand of all millets. It should be cut when in full bloom, at which time it is most tender and sweet. Grows to a height of four to five feet. Sow about 35 pounds to the acre. **See Special list for prices.**

Hungarian Millet
Is favored by some on account of its rapid growth, maturing about a week or ten days earlier than German Millet. Makes excellent hay, growing from two to four feet high. **Prices listed on Field Seed price list.**

Japanese Millet
This is entirely distinct from any other millet. It grows from five to nine feet in height, and produces enormous crops of fine hay. If sown broadcast, sow fifteen to twenty pounds to the acre; in drills at the rate of ten pounds per acre. It does best on low, moist ground. **Refer to Yellow list for prices.**

Siberian Millet
Earlier than either German Millet or Hungarian. Very valuable for the North and yields remarkably. It is extremely hardy, and drought resistant. Excellent for hay and is not subject to rust. **For prices see Special price list.**

FLAX
Flax can be sown only about once in six or seven years on the same ground. It is a splendid crop to grow on new breaking, for it not only produces a good paying crop but it also helps to prepare the soil for future crops, leaving ground in a nice mellow condition. Before sowing, it is especially important to have the ground well firmed. Sow 25 to 30 pounds to the acre, as early as possible and yet avoid the last killing spring frost.

Bison Flax
One of the new wilt-resistant varieties which has given very good results. Was developed at the Minnesota Experimental Station. **Prices given on Yellow list.**

Common Flax
Is used to a great extent on entirely new soil with very good results. We take special care of securing seed that is entirely free from foul seeds. **See Field Seed list for prices.**

RYE
Spring Rye
Makes an excellent crop for sowing where winter grain has been killed off or for soiling. It can also be grown for a grain crop by being seeded early in the spring and harvested in the same season, like wheat or oats. Does not grow quite so large a straw as winter rye, but usually yields well. Sow about 1½ bushels to the acre. **Latest prices are given on Special Field Seed list.**

Rosen Rye
Has proven itself to be so far superior to any other winter rye, that we would consider it a waste of space to list any other variety. It is a heavy yielder with a nice large kernel. The straw is big and strong and will stand the weather better than any other variety. **Refer to Yellow list for prices.**

SUDAN GRASS
Sudan grass belongs to the sorghum family. It is an annual, lacking underground root stalks. Two cuttings can be obtained under favorable conditions, and may yield from 2 to 5 tons of cured hay per acre. It should be seeded about corn planting time. If for hay, sow about 25 to 30 pounds to the acre broadcast. Cut just before it comes to a head. If wanted for silage, sow about 10 pounds to the acre in rows and cultivate the same as corn, or it may be sown with fodder corn if preferred. Sudan, if cultivated, will grow to a height of 8 or 10 feet. **See Special Field Seed price list for latest quotations.**

WHEAT
Marquis Type Wheat
A hard red spring wheat, beardless with long heads and very stiff straw of medium length. Kernels are short and thick and very plump. Ripens early, ahead of other spring varieties. Outyields nearly all spring wheats. **See Field Seed List for prices.**

Thatcher Type Wheat
Thatcher is the newest wheat variety introduced by the Minnesota Experiment Station. It is more rust resistant than most other varieties, beardless and is similar to Marquis in appearance, milling and baking qualities. It matures early and is a very heavy yielder. **Please refer to Yellow List for prices.**

Winter Wheat
This is a bearded, white chaffed winter wheat which produces kernels of the well-known Turkey type. **Prices given on Yellow Field Seed price list.**

BARLEY
Velvet Barley
A new introduction from the Minnesota Experiment Station. It is a heavy yielder, has a very stiff straw and is more disease resistant than many other varieties. A smooth awned six rowed variety which in comparative test has been consistently a heavy yielder as compared with other varieties. **See Special price list for prices.**

Manshury
Is early and very vigorous in growth. It has a strong, stiff straw which very seldom lodges. The heads are long and well filled with grain of fine quality and color. It yields abundantly. **For prices see our Yellow price list.**

Wisconsin No. 38 (Barbless)
A new heavy yielding barley that is noted for its resistance to disease, stiffness of straw and the ability to withstand the extreme heat of summer better than most other varieties. One of the finest for malting. **See Special list for prices.**

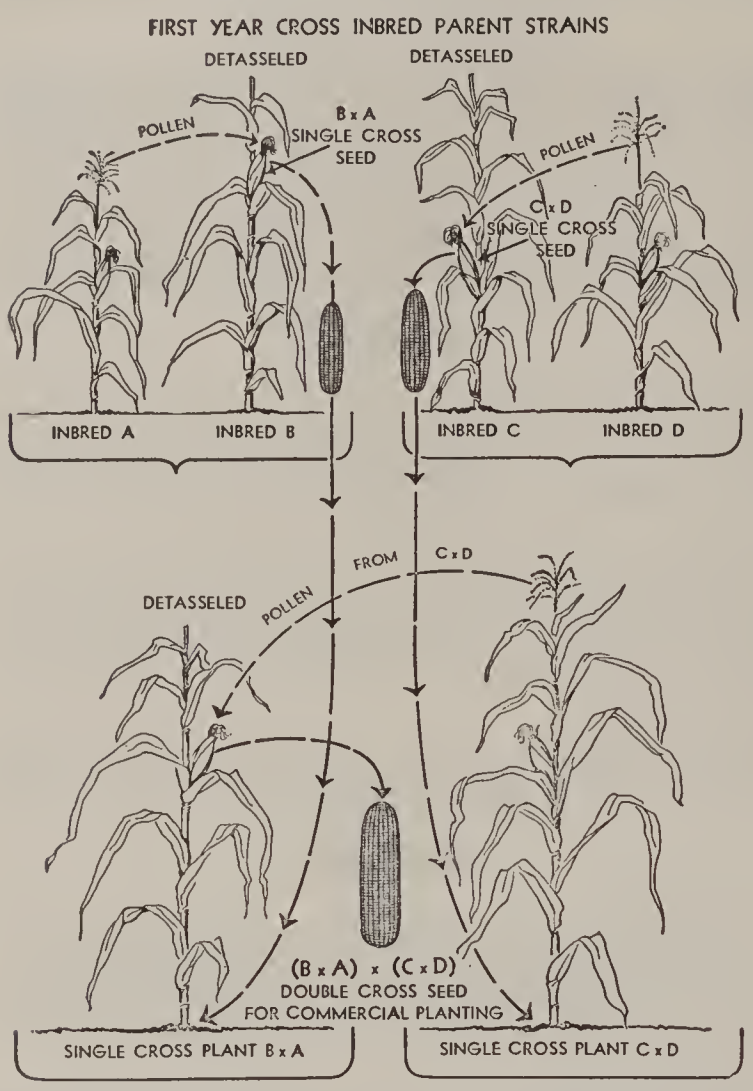
OATS
CULTURE. Sow oats at the rate of 2 to 2½ bushels to the acre, very early in the spring on a well prepared field with a modern grain drill. Deep seeding on heavy clay soil is often fatal to the crop. Two inches is deep enough on a fine, compact seed bed.

Gopher Oats
Gopher is a white, early maturing, stiff strawed variety especially adapted for southern Minnesota conditions. It has shown remarkable yielding ability in central Minnesota and is a good yielder on peat land. Gopher is an extra early variety usually maturing before the hot weather and rust have a chance to affect it seriously. Its extreme earliness, resistance to lodging and rust and fine quality make it one of the most desirable oats for this section. **See Special list for prices.**

Gould's Selected Swedish Oats
These oats we do not hesitate to place among the best for our northern climate. It is a heavy yielder of large, plump, white kernels. The straw grows quite tall, and does well on medium or light soil. Its habit of growth is so vigorous that on heavy soil it is likely to lodge. **See Yellow Field Seed list for prices.**

Sixty-Day Oats
Is recognized as being the quickest maturing oats on the market. It is a good yielder and a sure cropper, being very often sown after other crops have failed. It is a small yellowish oat that weighs about 34 pounds to the bushel; the hull is very thin. It is so early that it may be harvested with barley, and is three weeks ahead of most other sorts. **See Special price list.**

N. K. & Co.'s Lincoln Oats
Is another oat that has given very splendid results. Owing to its strong stiff straw it very seldom lodges and may be raised with marked success in very rich soil. **Refer to Field Seed list for prices.**



Method of crossing inbred plants and the resulting single crosses to produce double cross hybrid plants

FIELD PEAS

Are not only profitable as a dry shelled crop, but may also be used for hay, pasture, or soiling with excellent results.

Peas are second only to Clover in their soil enriching properties and can be grown under almost any condition of soil or climate.

Canada Yellow Field Peas

The standard field pea of the Northwest, and needs no description. It is always in demand either as a dry pea for cooking, or for pigeons. **Prices given on Special Field Seed price list.**

Large White Marrowfat

Vines grow 4 to 5 feet high bearing long, round pods with 5 to 7 large round peas. Yields abundantly. **See Special price list for latest quotations.**

Inoculate peas and beans with Nitragin before planting. See page 44 for prices.

SOY BEANS

Soy Beans are one of the most valuable crops one can raise. As a hay crop, Soy Beans are higher in protein content than clover and equal to alfalfa hay. Are excellent for silage grown with corn.

Do not plant too early; about corn planting time or later. Inoculate seed with Nitragin before planting. Cover seed lightly. Sow 30 to 45 pounds per acre in drills or broadcast 60 to 90 pounds. Make rows about 30 inches apart to allow for cultivation.

Manchu

This popular variety is especially recommended for the Northwest for hay, dry beans, as well as planting with corn for silage. Beans are yellow of medium size and mature medium early. Yields of beans will average around 25 bushels to the acre. **See special Yellow list for prices.**

SPELTZ

While not quite equal to oats, it makes a fair horse feed. It yields more than wheat or barley and even the straw if cut slightly green has a good amount of feeding value. **Prices are given on Special Field Seed price list.**

FIELD CORN

Seed Corn is without a doubt the most particular seed crop to be handled of any farm seeds. And it is very important that it receive the care and attention that it should have. Should a man take a chance on planting inferior seed corn and be obliged to replant a second time, his labor would be worth more than the original cost of reliable seed corn.

Hybrid Corn

Hybrid seed corn is a first generation cross between inbred strains. Inbred strains are developed by continual inbreeding of selected plants for several generations over a period of better than 10 years. Yields of hybrid planted seed corn will average from 7 to 11 bushels per acre higher than the regular varieties. Hybrids possess greater resistance to lodging, greater resistance to drought and considerable higher shelling percentages.

Kingscrost Hybrid Minn. No. 13, 100 Day Seed Corn

Of the same maturity as the normal variety of Sterling Minnesota No. 13 seed corn and adapted to the same areas. It grows slightly taller than the normal variety and ears are somewhat larger. It has been yielding approximately 10 bushels per acre more than the normal Minnesota No. 13 variety in yield comparisons conducted by the Minnesota Experiment Station in central Minnesota. **Prices given on Special Yellow list.**

Gould's Reliable Yellow Dent

Gould's Reliable Yellow Dent is an improved strain of Minnesota No. 13, having been selected for several years before it was offered for sale, with the result that it is larger and earlier than the Minnesota No. 13. **Prices are given on Special list.**

Minnesota No. 13

Is so well known that it is unnecessary to devote any space to its description. It is the standard Yellow Dent for Minnesota, produces a nice uniform ear of fairly good size and maturing about Sept. 1st. **See Special Field Seed list for prices.**

Yellow Flint

It's a very early 8-rowed Yellow Flint. The stalks grow about 7 ft. high with ears about 11 inches long. This corn is adapted to the Northwest, and is a very heavy yielder. **Prices are given on Special Yellow price list.**

Gould's Reliable Red Cob Fodder

Is a tall growing southern corn that will produce an abundance of feed per acre. The kernel is white and grows on a red cob, thus deriving its name. **Prices given on Special Field Seed price list.**

N. K. & Co.'s Elephant Fodder

Of the Yellow Dent type, but grows taller and more leafy than the average Yellow Dent corn, therefore producing a very heavy yield. **See Yellow price list for prices.**

RAPE

Dwarf Essex

Rape is one of the surest crops for late pasturing. Is relished by hogs, sheep and cattle. It may be sown as late as July 1st, and produce a very fine fall pasture. **Prices given on Special Field Seed price list.**

SORGHUM

As a soiling crop, sorghum will always prove of great value, since at least two crops can be obtained from one sowing. Milch cows are exceptionally fond of sorghum. It is excellent for milk production and a given area furnishes a large quantity of succulent food. Sorghum outyields fodder corn, producing a richer and more nutritious feed of greater value. **Prices given on Special list.**

SUNFLOWER

Mammoth Russian

Are especially useful in the poultry run, as the large leaves furnish shade for young chicks, also, the seeds make a good addition to the poultry ration. They are very rich in oil and protein and are splendid to feed during the moult and winter months. They are also valuable for hogs. **Prices given on Yellow price list.**

BUCKWHEAT

Buckwheat can be sown as late as July and still produce a crop, or it may also be plowed under for soiling. Sow ½ to 1 bushel per acre, as late as possible, and still have crop well developed before severe frosts occur. Light, well-drained soils are best for this crop.

Japanese

Will produce a larger growth and will stand dry weather better than any other variety. The kernel is large, dark brown and matures very early. **Refer to Field Seed price list for prices.**

SPRAYING ACME MATERIALS

Write or Call for Free Spraying Guide

Acme Ant-Kill

Rid your home and premises of the embarrassing and health-injuring ant nuisance. Kill the ants in the nest. Price: Cottage Set—3-oz. syrup and 5 cups, 60c; 3-oz. bottles, each, 25c; 2-oz. bottles, each, 20c; ½ pint, 50c; pint, 75c; service cups, each, 10c; 3 for 25c.

Acme Aphis Spray

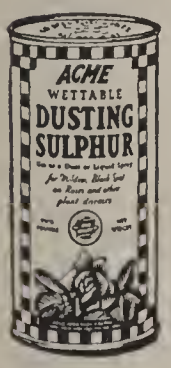
An improved nicotine spray combining a soft fish oil soap with Black Leaf 40, suitable for the control of all kinds of aphis (plant lice), thrip, leaf hopper and many more hardy insects infesting rose bushes, flowers, shrubs, vines, bushes and trees. Mixes easily with any kind of water. Price: 3-oz. tube, 35c; 12-oz., 95c.

Acme Bait-M

An effective insecticide bait which will throw a ring of protection around shrubs, flowers and plants in garden and lawn. For use against snails, slugs, cutworms, earwigs, sow bugs, grasshoppers and many other insects which migrate along the ground. Price: 1½ lb., 35c; 4 lbs., 85c; 15 lbs., $2.75.

Acme Dawg-Gone

Not necessary to place tube in every tree unless standing alone. The odor slowly emanating from the open tube will keep dogs at a distance from six months to a year winter or summer. Tube—25c, 4 for 95c.



Acme Wettable Dusting Sulphur

An improved dusting sulphur for home use which can also be used as a liquid spray. Recommended to control mildew, leaf spot, black spot and rust on rose bushes, chrysanthemums, snapdragons, carnations, and certain other foliage; also red spiders on evergreen. 98% passes through 325 mesh screen. Price: 2-lb. carton, 25c.

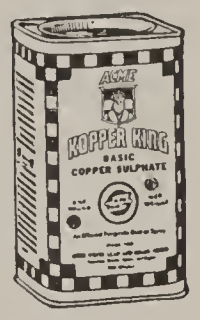
Acme Emo

A summer oil spray of fine quality, safe to use, pleasant to handle and of the much desired flowable consistency. Recommended as a contact spray in the control of white flies, rust mites, blister mites, mealy bugs, red spiders, certain scale, and other insects. The use of an oil emulsion enhances the verdant appearance of the foliage by adding a glossy lustre, reflecting health and beauty of the plant. Price: 8 oz., 30c; 1 pt., 50c; 1 qt., 70c; 1 gal., $1.95.

Acme Emo-Nik

Most yards contain shrubbery and foliage that are more affected by scale, red spider, and certain other troublesome pests than they are by aphis. Here is a complete contact insect spray combining nicotine in its most active form with Emo, a high quality summer oil emulsion. Recommended for control of aphis, mealy bugs, red spider, thrip, white flies, rust mites, mildew, certain scale insects, and certain other garden pests. Price: 4½ oz., 35c; 1 pt., 65c; 1 qt., 95c; 1 gal., $2.50.

Acme Kopper King (A Scientific Bordeaux Spray)



Kopper King is a basic copper sulphate, a fungicide of revolutionary importance. It is neutral and insoluble, requiring no lime to keep it from burning. Kopper King contains 50% copper, twice as much as ordinary copper sulphate (common bluestone). Can be uscd either as a liquid spray or combined with a carrier in making a homemade dust. Price: 1 lb., 40c; 4 lbs., 90c.

Acme Kopper Queen (Mildew Spray)

A strong liquid copper spray for the control of mildew, leaf spot, and black spot on rose bushes, flowers, and many other kinds of foliage. Stainless, leaves no unsightly residue which detracts so much from the appearance of flowers and ornamentals in your yard. Use as a liquid spray replacing Bordeaux Mixture and Sulphur. Price: ½ pint, 35c; pint, 55c; qt., 90c; gal., $2.25.

Acme London Purple

A favored insecticide for fifty years—now stronger and better than ever. London Purple is one of the lightest and fluffiest powdered insecticides on the market, assuring complete coverage and greatest adhesion to the foliage. For use on potatoes, sugar beets, and many other shrubs and vegetables damaged by leaf-chewing insects. Price: ¼ lb., 14c; 1 lb., 29c; 4 lbs., 45c.

Acme Red River Potato Mix

A scientific development combining a new patented copper fungicide with quick-killing arsenic. Kills potato bugs quicker, drives off flea beetle and leafhopper, prevents blight from gaining a foothold, stimulates foliage, making more and better potatoes. Complete control in one operation—at one cost. Use as a dust or spray. Price: 1 lb., 30c; 4 lbs., 80c.

Acme Rotenone Garden Guard

Protect your garden with a safe insecticide dust. Contains no arsenic or fluorine compound. The killing ingredient is Rotenone. Noninjurious to humans and warm-blooded animals, yet effective both by contact and as a stomach poison against insects. Especially recommended for use on broccoli, cabbage, cauliflower, brussels sprouts, string beans, currants, and sweet corn. A favorite of the housewife for dusting roses and flower gardens. Controls lice, fleas, and mites on dogs, cats, birds, and chickens. Price: 1-lb. sifter carton, 35c; 4-lb., 75c; 25-lb., $3.25.

Acme Spray Soap

A fish oil soap effective in destroying many sucking insects and lice on plants, trees, ferns, etc. If used with nicotine it greatly increases the value of that spray, Price: 1 lb., 30c; 5 lbs., $1.25.

Acme Weed Killer

A powerful quick-acting arsenical weed killer for destroying weeds and all plant life on driveways, tennis courts, paths, etc. More widely used, however, in spotting out dandelion, plantain and other noxious weeds in the lawn by applying a few drops of undiluted Weed Killer to the crown of the plant, using a regular weed cane or a squirt-bottom oil can. Price: 1 pt., 30c; 1 qt., 50c; 1 gal., $1.50.

Insecticides Continued on Next Page

INSECTICIDES and FUNGICIDES CONTINUED

Prices Subject to Change—See Special List for Quantity Prices.

Insecticides and Fungicides are now mailable, unless otherwise stated in this catalog.

Adco Weed Killer
A powder that eradicates weeds and does not injure the lawn. One pound covers 100 square feet. 3 lbs., $1.00; 25 lbs., $4.50.

Ansul Dust
A seed and soil treating compound which controls seed-borne diseases and when applied to the soil, controls damping-off of seedlings of almost all types of vegetables and flowers. 1-lb., 75c; 5-lb., $2.00; 25 lbs., $5.50.

Antrol
Quickly destroys all species of sweet eating ants. It is composed of small glass containers and a special syrup. Prices: Antrol sets containing 4 containers and 1, 4-oz. bottle syrup, 75c; ready-filled sets, 40c; Antrol extra containers, each, 10c; Antrol syrup, 4-oz., 35c; pints, 85c.

Arsenate of Lead
The most favored arsenical insecticide found on the American market. It is safe to use on tender foliage and sticks well on the leaves. Recommended for fruit trees, vegetables, bushes and for killing grubs and earthworms in the lawn. Can be used as dust or spray. Price: ½ lb., 20c; 1 lb., 35c; 4 lbs., 80c.

Atlacide
The improved non-poisonous weed killer. Kills quack grass, poison ivy and all other undesirable vegetation. 15 lbs., $3.00; 50 lbs., $6.25; 100 lbs., $11.50; 200 lbs., $22.00.

Auxilin
A substance that induces roots to grow quickly on cuttings or "slips." A new scientific discovery that works like magic. ⅛ oz. bottle will treat up to 600 cuttings. Full directions with each order. ⅛ oz., 50c; ½ oz., $1.00; 3½ oz., $6.00. Add 10c for mailing.

Black Flag
An effective spray repellent for flies and mosquitoes; also destroying roaches, waterbugs and ants. **Liquid,** ½ pt., 30c; 1 pt., 50c; 1 qt., 75c. **Powder,** small size, 15c; medium size, 40c; large size, 75c.

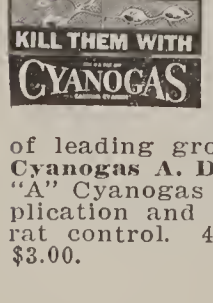
Black Leaf 40
This is a 40% solution of Nicotine Sulphate, valuable for the control of plant lice and other sucking insects. It kills by coming in contact with the body of the insect. 1 oz., 35c; 5 ozs., $1.00; 1 lb., $2.25; 2 lbs., $3.25; 5 lbs., $5.85; 10 lbs., $10.60.

Bordeaux Mixture
Prevents large losses caused by blight, rot, mildew, scab, anthracnose and certain other fungous diseases. It stimulates plant growth and greatly increases the harvests. Almost every kind of vegetable, fruit and shrub can be greatly improved by the early use of Bordeaux Mixture. Price: 1 lb., 30c; 4 lbs., 65c.

Calcium Arsenate
The cheapest arsenical insecticide on the market and of great economy and efficiency to combat chewing insects on potatoes, vegetables, etc. Price: 1 lb., 25c; 4 lbs., 45c.

Copper Sulphate
Also known as Blue Vitriol and Blue Stone.
Is used for making Bordeaux Mixture by dissolving 4 pounds Blue Stone and 4 pounds Hydrate or Stone Lime in 50 gallons of water. This will make a 4-4-50 Bordeaux. By using 5 lbs. Blue Stone and 5 lbs. lime one can make a 5-5-50 Bordeaux. 1 lb., 20c; 5 lbs., 75c; 25 lbs., $2.50.

Corrosive Sublimate
Very effective against seed-borne diseases of potatoes, cabbage, cucumbers, etc., also for the control of root maggot in cabbage, cauliflower, radish and other allied crops. Please ask for price.



Cyanogas Ant Killer
Ants die instantly when you drop a little Cyanogas Ant-Killer into the entrance of the nest. 4 oz., 30c.

Cyanogas (Calcium Cyanide)
Cyanogas G. Fumigant. Insects which do not yield to stomach poisons as a rule can be controlled by fumigation and Cyanogas G. is a standard for greenhouse fumigation. Ease of application, high efficiency and low cost have gained for Cyanogas G. Fumigant the endorsement of leading growers all over the world. 5 lbs., $3.00.
Cyanogas A. Dust. For ants, moles, rats, gophers. Grade "A" Cyanogas is recommended because of its ease of application and high efficiency. Highly recommended for rat control. 4 ozs., 30c; ½ lb., 45c; 1 lb., 75c; 5 lbs., $3.00.

Cuprocide (Red Copper Sulphate)
A powder for treating seeds against damping off and other fungus diseases. 4 ozs., 35c; 1 lb., 90c; 5 lbs., $4.00.

Dendrol
An improved miscible oil for Dormant and Delayed Dormant spraying of Fruit and Shade trees and shrubbery. Also used for onion maggot control with Bordeaux and Nicotine Sulphate. We have an interesting booklet on Dendrol and its uses. 1 qt., 75c; 1 gal., $1.25; 5 gal., $4.10.

Dogzoff
Protects your evergreens, trees, plants, birds, lawns from dogs, cats, moles, mice, rabbits, etc. There is nothing offensive to humans about Dogzoff. Price, 60c.

Dutox
Can be used as a spray or dust for the control of the potato beetle, cucumber beetle, bean beetle, etc. 1 lb., 30c; 6 lbs., $1.25.

EVER GREEN Garden Spray
Ever Green Garden Spray contains soap but is so condensed as to carry a minimum of water—less than 12%. It is 20% stronger in active principle and holds its strength for years. **Ever Green** Spray is ideal for the home garden as well as for commercial growers since it controls both chewing and sucking insects, and where applied regularly, costs less than other sprays for the result secured. 1 oz., 35c; 6 ozs., $1.00; 16 ozs., $2.15; 1 gal., $12.20.

Formaldehyde
Recommended for protection against seed-borne diseases. Will prevent potato scab, oats smut and stinking smut of wheat, also onion smut. 1 lb., 30c; ½ gal., $1.15; 1 gal., $2.25. Ask for price on larger quantities.

Fungtrogen
Controls mildew, black spots and other fungous diseases on roses and other plants; also stimulates vigorous plant growth. ½ pt., 75c; 1 pt., $1.25; 1 qt., $2.00; ½ gal., $3.50.

Gould's Tobacco Dust
Gould's Tobacco Dust may be used in the seed bed to prevent maggots. Especially valuable against root lice on asters and other plants. 1 lb., 20c; 3 lbs., 50c; 5 lbs., 75c; 10 lbs., $1.25.

Grape Dust
A powder preparation which is very effective in destroying blights. Especially recommended for mildew on roses and grape vines. Preferable applied with duster. 1 lb., 35c; 5 lbs., $1.00.

H. W. K. Weed Killer
Destroys weeds, poison ivy and all vegetation on roadways, paths and tennis courts. Dilute with 40 parts water and apply with sprinkling can. Qt., 50c; gal., $1.50; 5 gal., $6.25.

Kayso
A combined casein spreader and adhesive. Recommended by Agric. Exp. Sta. as the ideal spreader and sticker to use with your spray material. 2 lbs., 50c.

Lime Sulfur Powder
For use in dormant spraying against scale, peach blight, leaf curl and twig borer. Summer spraying against scab, soot, blotch, red spider and mite. Price: 1 lb., 35c; 5 lbs., $1.45; 25 lbs., $4.00.

Lime-Sulphur, Concentrated Solution
Convenient to use, free from sediment, requires no preparation other than stirring into water. One of the best remedies for San Jose scale. 5 gal., $3.75. Barrel price on application.

Mercurnol
A simple, effective and economical seed treatment for potatoes. It eliminates danger of planting seed potatoes infected with scab, blackleg and Rhizoctania. 1 pt., 70c; 1 qt., $1.25; 1 gal., $4.25.

Naphthalene Flakes (Crude)
Crude Naphthalene is used for the repelling of such soil pests as: Wire worms, maggots, moles, gophers, snails, slugs and certain other soil pests. It can be used without burning or flavoring even the most tender root crops, and is highly recommended by bulb growers for protection against thrips, white fly and certain other stinging insects. It is used extensively with radishes, potatoes, carrots, onions and most other crops. 1½ lbs. 25c; 5 to 25 lbs., 12c per lb.; 25 lbs. and up at 10c per lb.

Nico Fume Liquid
A highly refined solution of free nicotine for greenhouse fumigation. 1 lb., $2.25; 4 lbs., $5.75; 8 lbs., $10.00.

"Nico-Fume" Pressure Fumigator

(Tobacco Powder)
A greenhouse fumigant, effective for destroying aphis, thrips, etc. The one-pound can will fumigate about 25,000 cubic feet—a house 80 to 100 feet long, 25 feet wide, averaging about 10 feet high. Prices: 1 lb., 75c; six 1 lbs., $3.75; twelve 1 lbs., $7.00; ½ lb., 45c; six ½ lbs., $2.40; twelve ½ lbs., $4.20.

No-Crow
Is used to prevent crows, blackbirds, gophers and other rodents from pulling and eating seed corn after planting. ½ pt., 60c.

Paris Green
For combating the potato bug and other chewing insects. Price: ¼ lb., 18c; 1 lb., 50c; 5 lbs., $2.25; 14 lbs., $5.00.

P. D. Spray
The best spray for the box elder beetle. An excellent spray against mosquitoes, spiders, flies, moths, fleas, gnats, ants, bedbugs, roaches. ½ pt., 25c; 1 pt., 45c; 1 qt., 75c; ½ gal., $1.45; 1 gal., $2.50.

Pomo-Green (With Nicotine)
A leaf-green sulphur dust which is used to control fungous diseases, sucking and leaf insects on roses, flowering plants and shrubs. An inconspicuous and highly effective dust. 1 lb., 75c.

Red Arrow Garden Spray
Non-poisonous pyrethrum spray containing soap. Kills many varieties of both chewing and sucking insects. 1 oz., 35c; 4 ozs., $1.00; pt., $2.85; qt., $5.40.

Rodent Repellent
Protects fruit trees and shrubbery from rabbits, mice and other rodents. It will remain effective throughout the winter. Does not injure any tree or shrub. Qt., 85c; 1 gal., $2.75.

ROOTONE
PATENTS PENDING

A Hormone Powder for Rooting Cuttings

Rootone is the most potent of all plant hormones. For rooting cuttings it is easier, faster, surer, better, cleaner and safer. For dusting seeds and soil Rootone gives more and better plants, more and longer roots, greater top growth and vigor. Rootone offers the most economical, simple, efficient way for the use of plant hormones, giving twice the number of cuttings at the same cost.

2 ozs., $1.00 (contents will treat up to 3,000 cuttings).
1 lb., $5.00 (contents will treat up to 30,000 cuttings).

Rotecide
Both a contact and stomach poison Kills mealy bug, beetles, thrips, aphis, etc. 1 oz., 35c; 8 ozs., $1.00; 1 pt., $1.75; 1 qt., $3.00.

Selocide
A red spider spray for the commercial grower. 1 qt., $1.00; 1 gal., $2.75.

Seed Disinfectants — DUBAY — Seed Disinfectants

Dubay Seed Disinfectants are now mailable

Semesan—for vegetable and flower seeds. Prices: ⅓ oz., 10c; 2 ozs., 35c; 1 lb., $2.25; 5 lbs., $9.90.

Improved Semesan Bel—for seed potatoes. One pound treats 60 to 80 bushels of seed. Prices: 4 ozs., 45c; 1 lb., $1.50; 5 lbs., $6.75.

New Improved Semesan Jr.—for field and sweet corn seed. Use two ounces per bushel of seed. Prices: 2 ozs., 15c; 4 ozs., 30c; 1 lb., 75c; 5 lbs., $3.25.

New Improved Ceresan—for wheat, oats and barley. One-half ounce treats one bushel of seed. 1 lb., 70c; 5 lbs., $3.00.

Special Semesan—a grass disinfectant for brown patch. 5 lbs., $7.00; 25 lbs., $33.00.

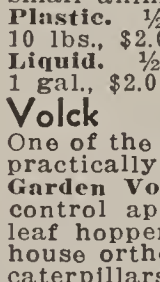
Nu-Green—for the prevention and control of brown patch in lawn, golf courses, etc. 3 ozs., 35c; 1 lb., $1.45.

Sheps Plant Spray
An improved, non-poisonous spray that kills and controls nearly all garden insects. No soap needed. ½ oz. 10c; 1½ oz., 25c; ½ pt., 75c; 1 pt., $1.35; 1 qt., $2.25.

Slug Shot
Very popular insecticide; harmless to humans, or fruits and vegetables treated. Very effective in destroying cabbage and cauliflower worms, potato bugs and beetles green and black fly slugs worms, caterpillars, etc. 1 lb., 25c; 5 lbs., $1.00; 25 lbs., $4.00.

Snarol (Kills Cutworms)
Snarol kills cutworms, sowbugs, grasshoppers, slugs, etc. A ready prepared poison that destroys those pests quickly. 1½ lbs., 35c; 4 lbs., 85c; 15 lbs., $3.00.

Sulphate of Iron (Weed Killer)
Kills dandelions and weeds. Dilute 1 lb. to 1½ gallons of water. 1 lb., 15c; 2 lbs., 25c; 5 lbs., 60c; 10 lbs., $1.00; 25 lbs., $2.00.



Tanglefoot Fly Spray
Kills flies, moths and household insect pests, such as roaches, ants and bedbugs. It will not stain or injure the most delicate fabrics or furs. ½ pt., 30c; 1 pt., 50c; 1 qt., 85c; 1 gal., $2.65.

Tanglefoot Stock Spray
Is more than a repellent, it kills flies and all insects its deadly mist reaches. It will not taint the milk and is harmless to humans and animals. 1 gal., $1.50; 5 gals., $6.50.

Terogen
For autumn-winter soil treatment. Will give your roses a better start next year. In successful use for twenty years. 1 lb., 75c; 2 lbs., $1.25.

Terro Ant Kill
One of the oldest and best ant killers, in syrup form. Ants disappear over night. Each, 25c; postpaid 35c.

Terro Roach Killer
Kills roaches and water bugs quickly. 4-oz. can 35c.

Tree Tanglefoot
Tree Tanglefoot is a sticky compound, easily applied and is the most effective and economical protection for fruit, shade and ornamental trees against all crawling insects. Particularly recommended against canker worm, climbing cutworms, ants, tussock moth, browntail moths and gypsy moths. Full directions on every can. 6 oz., 35c; 1 lb., 65c; 5 lbs., $3.00; 10 lbs., $5.65; 25 lbs., $12.00.

Thrip Juice Spray
Nicotine and whale oil soap combined. More spread, greater kill and longer life for nicotine. Kills all sucking insects, especially aphis, thrip, mealy bug, red spider, etc. ½ pt., 35c; 1 pt., 65c; 1 qt. $1.25.

Triad
A combination fungicide and contact insecticide for the control of black spot, mildew and insects on roses. 4 oz., 65c; ½ pt., $1.00.

Tri-ogen
An all-purpose spray—controls black spot and mildew, kills all insects including the sucking and leaf-eating types. Also stimulates plant growth. Price, $1.50, $4.00.

"43" for the Tree
Liquid or plastic compounds for use in tree surgery in healing injury or wounds in trees or shrubs. Use Plastic "43" for cavities—Liquid "43" to paint over surface wounds, pruned trees at sawed off limbs, etc. Also to coat around bottoms of trees to aid in preventing rabbits, small animals and insects from attacking the tree.
Plastic. ½ lb., 25c; 1 lb., 45c; 2½ lbs., 75c; 5 lbs., $1.25; 10 lbs., $2.00; 50 lbs., $6.25.
Liquid. ½ pt., 25c; 1 pt., 45c; 1 qt., 75c; ½ gal., $1.25; 1 gal., $2.00; 5 gals., $6.25.

Volck
One of the most powerful insecticides known; effective on practically all insects of ornamental and flowering plants.
Garden Volck is a Volck-Nicotine combination spray to control aphis, thrips, scale, mealy bug, cyclamen mite, leaf hopper, red spider, white fly, lace wing bug, greenhouse orthezia, leaf spot, mildew, rust, squash bug, small caterpillars. 3½ oz., 35c; 1 pt., $1.00; 1 qt., $1.50.
Nursery Volck is the high quality Mineral Oil Spray for general nursery, greenhouse and garden use where Volck was formerly used. It is safer and equally effective. ½ pt., 35c; 1 pt., 50c; 1 qt., 75c.
Greenhouse Volck is a special "Volck" for use on tender plants under lath or glass. It is exceptionally safe to tender foliage. Unusually effective against mealy bug. 1 qt., 75c.

White Hellebore
Especially valuable in controlling worms on ripening fruit as it loses its poisonous effect within a few days after application. Hellebore is popular for controlling the Currant worm. ¼ lb., 20c; ½ lb., 35c; 1 lb., 65c.

SPRAYERS

Hudson Perfection

The Perfection is the highest pressure compressed air sprayer made. High pressure is absolutely essential to thorough, protective spraying. Used for spraying small orchards, truck gardens, field and row crops, flowers, shrubbery, shade trees and other foliage. Easily and economically applies whitewash, cold-water paints, shingle stain and wall sizing. Capacity, 4 gallons. **Galvanized tank, each, $6.50. Copper tank, each, $10.50.**

Hudson Junior

The Hudson Junior is similar to the Perfection except capacity which is 2½ gallons. Particularly suited for the backyard garden or small truck farm; for handy use in chicken house, dairy farm, hog pen; for applying disinfectants and insecticides. **Galvanized tank, each, $4.50. Copper tank, each, $7.35.**

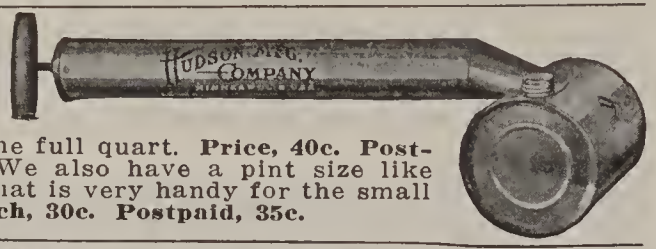
Hudson Climax

Can be used for all classes of work in the truck garden, orchard, poultry house, dairy barn, hog pen, about the house, yard, etc. Handles whitewash, cold water paints, insecticides, etc. Cap., 3½ gals. **Price: Galv., each, $4.65.**

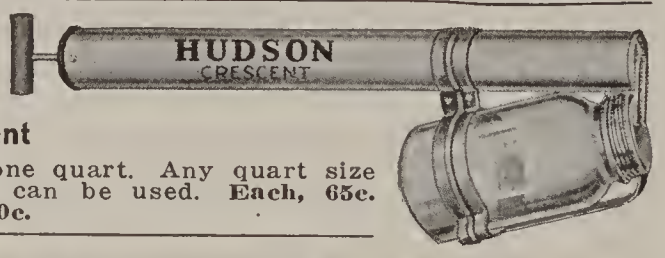
Hudson Du-More Sprayer

A continuous high pressure sprayer. Adapted for all truck and field crops, berry bushes, fruit trees, shrubs, flowers, etc. Will handle all insecticides, etc. Capacity, 4 gallons. **Price: Galvanized, $14.50.**

The New Misty

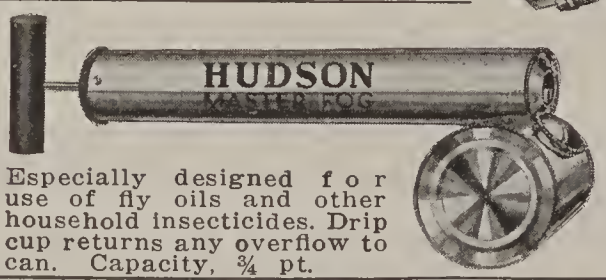


Capacity, one full quart. **Price, 40c. Postpaid, 50c.** We also have a pint size like the above that is very handy for the small garden. **Each, 30c. Postpaid, 35c.**



The Crescent

Capacity, one quart. Any quart size mason jar can be used. **Each, 65c. Postpaid, 80c.**



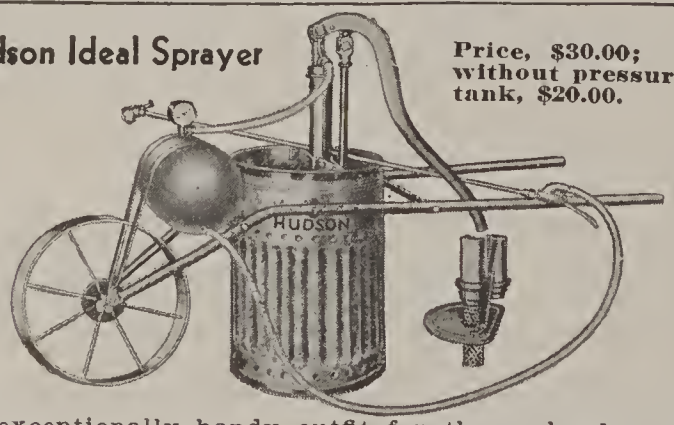
Hudson Fog

Especially designed for use of fly oils and other household insecticides. Drip cup returns any overflow to can. Capacity, ¾ pt.

Price: Each, 35c

Hudson Ideal Sprayer

Price, $30.00; without pressure tank, $20.00.

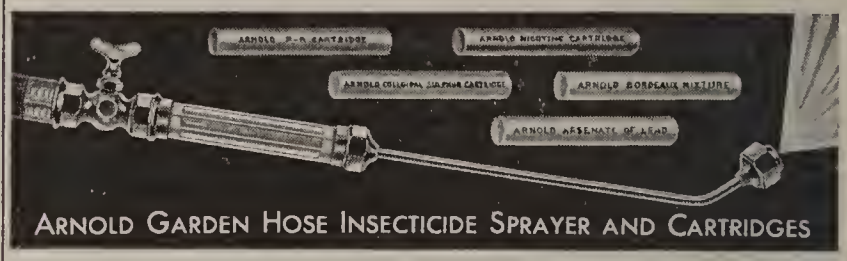


An exceptionally handy outfit for the orchard or truck garden; for applying whitewash, cold-water paints, insecticides, stock dips, remedies, etc. Capacity, 18 gallons.

Hudson Sunshine

The sturdy construction of the Sunshine One-Wheel Sprayer makes it a most popular model for use in greenhouses. around hotbeds, in the field, around the dairy barn, poultry house, etc. Specially recommended for whitewash, cold-water and cement paint. **Without pressure tank, $12.50; with pressure tank, $20.00.**

ARNOLD GARDEN HOSE SPRAYER



ARNOLD GARDEN HOSE INSECTICIDE SPRAYER AND CARTRIDGES

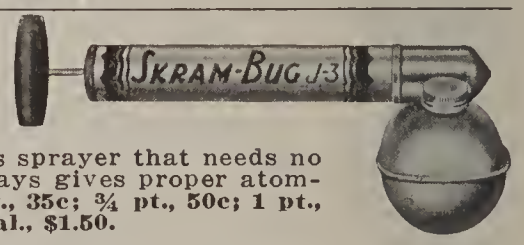
The Arnold Garden Hose Sprayer attaches to your garden hose in place of the regular nozzle. Special Soluble Arnold Cartridges for insect and plant disease control fit the cartridge chamber. As water in the hose passes through the chamber, the cartridge is dissolved a little at a time, but in sufficient quantity to provide the correct control solution. The regular water pressure forces the solution out of the nozzle in the form of a fine mist. The curved spray end enables the gardener to reach all parts of plants without effort or difficulty.

Complete Sprayer, chromium finish.....$3.50
Arnold Junior Size..... 2.50
36-inch Extension 1.50
Tree Waterer Extension 1.50
Cartridges: pyrethrum-rotenone, sulphur, nicotine, arsenate of lead, bordeaux or fertilizer, 35c each; 6 for $2.00.

Insect-O-Gun

Kill insects with your garden hose. By simply using the water pressure in a garden hose you can now effectively spray your flowers, trees and shrubs with the same efficient results secured by power spraying methods. Applies all insecticides as easily as sprinkling the lawn. **Pt. size, $3.75; qt. size, $4.75.**

Skram-Bug Sprayer

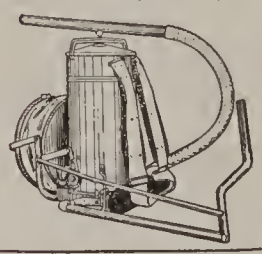


A no-drip, continuous sprayer that needs no adjustments and always gives proper atomization. **Prices: ½ pt., 35c; ¾ pt., 50c; 1 pt., 65c; 1 qt., $1.00; ½ gal., $1.50.**

SPRAYER PARTS

We carry a complete line of repair parts for sprayers. If your sprayer gets out of order, bring it to us. Minor repairs made while you wait.

DRY POWDER DUSTERS

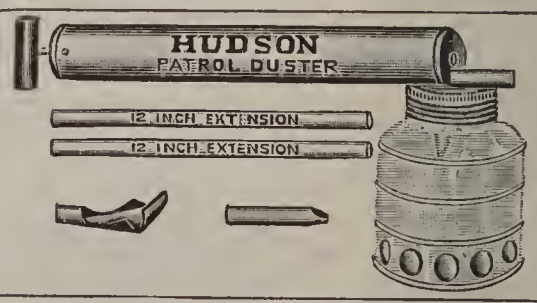


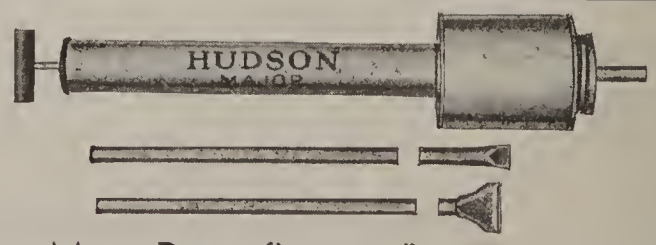
American Beauty Duster

The most powerful hand duster made. Can throw dust to the top of 25-foot trees. Dusts truck crops, including underside of leaves, at an average walking speed. Does not choke or clog. A most efficient duster. **Price, $18.00.**

Hudson Glass Duster

Easy to use in every class of work. Does not waste powder, can be used for B-K powder or similar dusts which might corrode other metals. **Price, with extensions, $1.00.**





Hudson Major Duster (Improved)

The Major handles Paris green, arsenate of lead, calcium arsenate and similar poisons very efficiently. **Price, 75c.**

Skram-Bug Duster

Gives complete fogging of powder and exhausts all material in chamber. Will handle most every powder or dust material. **Price: 50c; 60c, postpaid.**

Enjoy A MORE LUXURIANT GARDEN

Gould's Lawn Mixtures contain only high-quality seed of strong vitality and high germination. After the seed germinates and the plants develop feeding roots, much of future growth and blooming depends on the nourishment they can get from the soil. To be certain that young plants will have all the 11 elements needed for finest growth and bloom, we recommend the use of Vigoro, the complete plant food.

Vigoro is the plant food made by Swift especially for home gardeners. It contains all 11 of the elements scientists have proved plants must get from the soil.

Get enough Vigoro to feed your lawn, flowers, shrubs, trees and vegetables. Order 4 pounds for every 100 square feet of lawn and garden area.

Only 4 pounds of Vigoro per 100 square feet gives a real square meal to your lawn or garden.

You'll find Vigoro the most economical as well as the most satisfactory plant food you've ever used.

FEED YOUR LAWN EARLY

Vigoro should be thoroughly soaked into the lawn. But, in early spring, as frost leaves the ground and the grass is still dormant, WATERING IS NOT NECESSARY! Simply spread the Vigoro evenly at the rate of 4 pounds per 100 square feet of area. It's so easy and it assures the grass extra nourishment when it needs it most.

Early feeding has proved effective in ridding lawns of weeds. Try it this year.

Vigoro Prices

100-lb. bag	$4.00	10-lb. pkg	85c
50-lb. bag	$2.50	5-lb. pkg	45c
25-lb. bag	$1.50	1-lb. pkg	10c

F. O. B. ST. PAUL

VIGORO

A SQUARE MEAL FOR LAWNS AND FLOWERS

A PRODUCT OF SWIFT

FERTILIZERS

When not priced or for larger quantities, see Special Yellow Price List.
Prices subject to change without notice.

Agricultural Gypsum or Land Plaster

Is a fertilizer containing calcium and sulphate sulphur. Also used as a dust against the cucumber beetle and squash bug by dusting on and around the plants when infested. 5 lbs., 25c; 25 lbs., 50c; 100 lbs., $1.20.

Aluminum Sulphate

For making the soil acid, needed for certain plants. Use one lb. to 10 sq. ft. of surface. 1 lb., 15c; 2 lbs., 25c; 5 lbs., 60c.

Sheep Manure—Pulverized

A quick acting plant food for general use about the lawn, flower beds or garden. For lawns, use 50 pounds per 1,000 square feet. 5 lbs., 30c; 10 lbs., 50c; 25 lbs., 85c.

Agricultural Lime

Excellent for sweetening acid soils. 5 lbs., 25c; 25 lbs., 55c; 50 lbs., 75c; 100 lbs., $1.50.

Hardwood Ashes

Valued because of its high potash content. Has a tendency to drive away insects. 5 lbs., 30c; 25 lbs., 65c; 50 lbs., $1.15; 100 lbs., $2.00.

Nitrate of Soda

Furnishes nitrogen in a readily available form. Used for forcing and as a stimulant for backward plants and trees. 5 lbs., 45c; 25 lbs., $1.00.

Sulphate of Ammonia

A valuable fertilizer for all plants in which rapid growth or large leaf development is desired. 5 lbs., 35c; 10 lbs., 55c; 25 lbs., 90c; 50 lbs., $1.65.

Milorganite

The ideal fertilizer for lawns, gardens, flowers, shrubs and trees. Supplies the soil with all the elements plants need for healthy, continuous growth. Milorganite works slowly and steadily—over an extended period. It promotes steady, healthy, uniform growth. This is an advantage, because too rapid growth results in a weakened plant structure—and the effect of the fertilizer is short-lived. Milorganite contains no weed seeds or harmful bacteria. Being organic, Milorganite stimulates desirable soil bacteria of all kinds, necessary for conversion of water-insoluble elements into plant food. Being granular, Milorganite is dustless and free flowing, easy to apply. Does not burn the lawn when applied. Golf courses in the United States and Canada use more Milorganite than any other fertilizer. 5 lbs., 50c; 10 lbs., 75c; 25 lbs., $1.20; 50 lbs., $1.90; 100 lbs., $3.00.

SPECIAL GOLF COURSE FERTILIZERS

Full information and prices will be gladly furnished on any of the fertilizers we carry.

Muriate of Potash

A highly concentrated form of potash of especial value for potatoes, corn, grain and all root crops. 5 lbs., 50c; 25 lbs., $1.25; 100 lbs., $3.50.

Super Phosphate (20% or 45%)

Often used with manure and an application of 50 pounds of super phosphate per ton of manure gives good results. Straight applications should be made at the rate of 200 to 800 pounds per acre. Very good for clover, alfalfa, field beans, and peas, winter wheat, rye, barley, etc.

Steamed Bone Meal (2-26-0)

An excellent top dressing for lawns and an effective fertilizer in gardens and orchards. Popular among greenhouse men for potting and for fertilizing bench stock. Apply 50 pounds per 1,000 square feet on lawns and 50 pounds per cubic yard for benching, pot plants and roses. 5 lbs., 35c; 10 lbs., 60c.

Raw Bone (3¾-20-0)

Raw bone does not break down or decompose as quickly as steamed but it is better for crops not needing quickly available food. It is excellent for rose beds, vines, shrubs and trees. 5 lbs., 35c; 10 lbs., 60c.

Shredded Cattle Manure

A good form of fertilizer where a supply of humus as well as fertilizing elements is needed. Suitable for soil mixing and liquid manure. 5 lbs., 35c; 10 lbs., 55c.

Imported Horticultural Peat

It adds organic matter, improves the texture, conserves moisture and aerates the soil. Peat moss is recommended for mixing in soil, for pot plants, window boxes and in flower or vegetable gardens. Price, $3.60 per bale.

Armour's Garden and Lawn Fertilizer

An excellent fertilizer for lawn, flower or vegetable garden, shrubbery, etc. 4% nitrogen, 8% phosphoric acid and 6% potash.

Armour's Special Florists Mixture

All inorganic and quickly available—5% nitrogen, 15% phosphoric acid, 5% potash. Highly recommended for all types of plants either under glass or outside. Promotes thrifty growth and profuse blossoming.

Swift's Special Tree Food

12% nitrogen, 6% phosphoric acid, 4% potash. Excellent for all types of shade trees and evergreens. For shade trees apply under drip of outside branches at rate of ¾ pound per each foot in height of tree. For evergreens use ½ pound per foot in height of tree.

Swift's Special Golf Fertilizer

A complete grass plant food—12% nitrogen, 6% phosphoric acid, 4% potash. This product is especially prepared for turf production. For greens mix 5 to 8 pounds with compost applied per 1,000 square feet and drench in.

Blood Meal

13½% organic nitrogen. Readily available, finely ground. Use under glass where quick response is desired. 2 lbs. to 4 lbs. per 100 square feet. 5 lbs., 60c; 10 lbs., $1.00.

Hoof Meal

14¾% organic nitrogen. Slowly available. Use under glass. 5 lbs., 60c; 10 lbs., $1.00; 25 lbs., $2.00.

Horn Shavings

13½% organic nitrogen. Slowly available. Use under glass. 5 lbs., 85c; 10 lbs., $1.50.

Urea (Floranid)

46% nitrogen. Very quickly available. Usually applied in liquid form. Dissolve 4 ounces in 50 gallons of water. 5 lbs., 90c; 10 lbs., $1.50.

Rose Grower Bone Meal

3¾% nitrogen and 22% total phosphoric acid. Has same strength as raw bone meal but is more quickly available. 5 lbs., 45c; 10 lbs., 85c.

Sulphate of Potash

48% potash. Same use as muriate of potash. 5 lbs., 50c; 10 lbs., 80c.

Adco (Makes artificial manure)

Adco is a powder which, when mixed with dry leaves or almost any non-woody vegetable waste and kept moist, converts the mass into artificial manure—equal to the farmyard product in fertilizing power, but free from foul odor. 7½ lbs., $1.00; 25 lbs., $2.25; 50 lbs., $4.50; 100 lbs., $8.00.

Poultry Manure

It is pulverized and easily soluble, readily absorbed. The analysis is 6—2½—1¼. Use poultry manure in the garden, for lawns, shrubbery, etc. 5 lbs., 40c; 25 lbs., $1.25; 100 lbs., $3.50.

Pulverized Limestone

Sweetens, also improves the texture of the soil and liberates nitrogen and other plant foods, and stimulates bacterial action. 5 lbs., 30c; 10 lbs., 45c; 25 lbs., 55c; 100 lbs., $1.00.

Nutria Peat Moss

Nutria peat is a high lime granulated peat, clean, odorless and pleasant to work with. It is an excellent soil builder. It will lighten clay or heavy soils and build up sandy or light soils. It conditions and changes otherwise poor soil into one of rich, mellow texture. Nutria peat moss will hold 15 times its weight in moisture, thus soil does not dry out as quickly and needs less watering. Makes an excellent top dressing for new or old lawns. Peat is also valuable to use in the garden to give the soil that mellow texture and prevent crusting. Is almost as cheap as ordinary black earth. Large bag, 90c; 2 bags, $1.50; 3 bags, $2.00; 1 cubic yard load, $3.50; 2 cubic yard load (equal to 20 bags), $5.00, delivered in St. Paul.

Stim-U-Plant Tablets

A fertilizer in tablet form for house plants and flowers. Rich in concentrated essential plant foods. Convenient to use, clean and odorless. Full directions on each package. Special trial size, 10c; 30-tablet size, 25c; 100-tablet size, 75c; 1,000-tablet size, $3.50, postpaid.

GARDEN TOOLS AND ACCESSORIES

No. 4 Planet Jr. Hill and Drill Seeder and Single Wheel Hoe Combined

Equipment; 1 garden plow, 3 steel cultivator teeth, 1 pair of hoes, 1 leaf lifter, capacity 2½ quarts. Price, $18.75. No. 4-D Seeder only. Price, $14.75. No. 25, same as No. 4, but as a Double and Single Wheel Hoe. Price, $22.50.

No. 3 Planet Jr. Hill and Drill Seeder

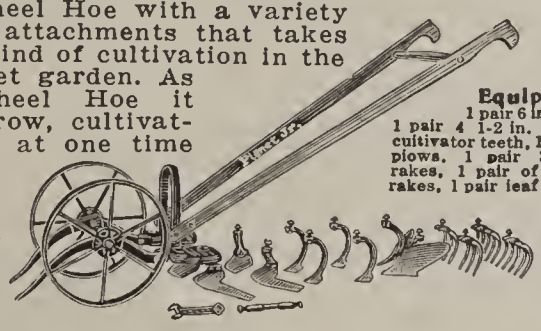
A great favorite among market gardeners. Sows all vegetable seeds in drills, or drops in hills 4, 6, 8, 12 or 24 inches apart. Sows at the proper depth and thickness and economically produces straight rows and a uniform stand, making cultivation easier. The hopper holds 3 quarts. Price, $18.00.

No. 300 Drill Seeder

A plate or disc Seeder for all seeds from the smallest up to and including peas, beans and corn. Growers of peas and beans will appreciate this seeder as it does not break the seed and sows with great regularity. Only three plates each with thirteen holes, making ample adjustment for various seeds. Hopper holds four quarts and is removable which makes easy filling and emptying. Price, $20.00.

No. 11 Planet Jr. Double and Single Wheel Hoe Combined. Price $14.50

A wonderful combination of a Double and Single Wheel Hoe with a variety of cultivating attachments that takes care of every kind of cultivation in the home or market garden. As a Double Wheel Hoe it straddles the row, cultivating both sides at one time until plants are 20 inches high. As a Single Wheel Hoe it is a wonderful timesaver and does many kinds of work.



Equipment: 1 pair 6 in. Hoes, 1 pair 4 1-2 in. hoes, 4 cultivator teeth, 1 pair of plows, 1 pair 3-tooth rakes, 1 pair of 5-tooth rakes, 1 pair leaf lifters

No. 12 Double and Single Wheel Hoe

A popular combination—used by thousands of home and market gardeners everywhere. Has No. 11 equipment except 4½-inch hoes and rakes. Price, $11.50.

No. 13 Double and Single Wheel Hoe

A great favorite among onion growers. **Equipment:** One pair of 6-inch hoes, the most useful attachments. Other attachments can be added at any time. Price, $8.75.

No. 16 Planet Jr. Single Wheel Hoe

Lighter than a Double Wheel Hoe and almost as useful to those who prefer a light tool. The variety of attachments will handle practically any cultivating, hilling, furrowing, etc., in the garden.

Equipment: One pair of 6-inch hoes, 3 steel cultivator teeth, garden plow, one 3-tooth and one 5-tooth rake, 1 leaf lifter. Price, $8.75.

No. 17 Single Wheel Hoe. Same as the No. 16, less the rakes and leaf lifter. Price $7.75.

No. 17½. Single Wheel Hoe. Same as the No. 17 less the plow. Price, $6.75.

No. 18 Single Wheel Hoe

Equipped with one pair of 6-inch hoes only, the most useful attachments. A great favorite among market gardeners; a wonderful time and labor-saver. Other attachments can be added whenever desired. Price, $5.75.

No. 82 Planet Jr. Horse Hoe and Cultivator

The No. 82 is a 7-tooth machine. It has reversible side standards, which can be turned any angle desired. The seven teeth insure fine and thorough cultivation. The machine will take all other extra attachments for One-Horse tools and the whole combination is one which is valuable for hoeing, hilling, or thorough cultivating. Price, $15.00.

Planet Jr. Catalog

We shall be very glad to mail you a Planet Jr. Catalog containing a complete list of garden and farm tools, as well as parts and prices.

Planet Jr. Garden Plow and Cultivator No. 119

$3.85

Equipment: 1—¼-in. Cult. Tooth, Large Garden Plow, Combination 2 Cult. Teeth and V-shaped Scuffle Hoe, and Wrench.

The No. 119 is sturdily built, with a 24-inch wheel. It is an easy running tool for any garden work, and especially where such crops as potatoes, corn, field beans or anything in wide rows must be cultivated by hand rather than with a horse. Ten times as fast as a hand hoe. Price, complete, $3.85.

Hotkaps

HOTKAPS are waxed paper cones, easily set out in quantity over seed or growing plants. They guard against rain, frost, cold, wind, hail, birds and insects, and maintain perfect mulch. Growth is forced and yield is increased 10 to 25%. Crops mature 2 to 3 weeks earlier. Prices:

1000—No Setter included (weight 28 lbs.)	$10.25
500—Without Setter or Tamper (Wt. 15 lbs.)	5.75
250 With Garden Setter and Tamper (Wt. 9 lbs.)	3.85
100 With Garden Setter and Tamper (Wt. 5 lbs.)	2.65
25 With Fibreboard Setter (Wt. 1 lb.)	.50

Market Garden Steel Setter and Tamper $1.50.
Garden Setter, 50c—Steel Tamper, 25c.

Cyclone Seed Sower

Broadcasts evenly, saves seed. The Cyclone will sow many acres per hour, any amount per acre. Does the work quickly and saves labor. Can be used for sowing clover, timothy, alfalfa, lespedeza, sudan grass, oats, wheat or any other seed that is sown broadcast. Price, $2.75 postpaid.

The Horn Seed Sower.

Will sow perfectly all smooth seeds like alfalfa, clover, timothy, lespedeza, etc., any desired amount per acre. Easily operated. Price, 90c, postpaid.

Rubber Bands

For bunching vegetables. Several kinds and sizes. Please ask for prices.

Olsen Dandelion Destroyer

This machine not only kills dandelions but other weeds by simply inserting the point into the center of the plant and pressing down. The powder discharged will not kill grass but has a fertilizing effect. Price, $2.98; Powder, 1 lb., 35c; 3 lbs., 98c; 5 lbs., $1.60; 10 lbs., $3.00.

Death to Dandelion Gun

Is as easy to operate as a walking cane. Just a light touch to each dandelion root and the liquid released from the gun penetrates the roots and kills the dandelions. Price, Gun, $2.35; Liquid, 1 gal. $1.00.

Caulking and Glazing Gun

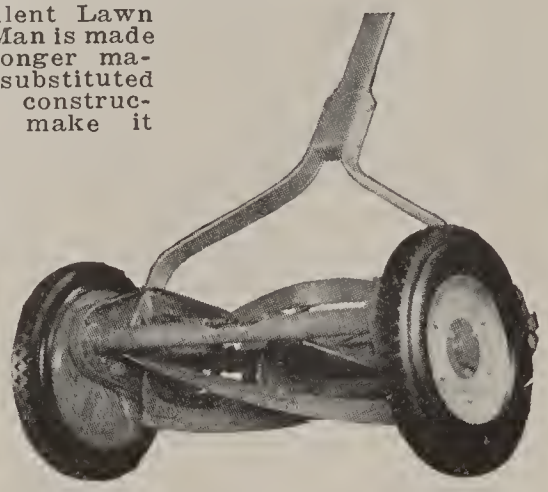
The Gun operates so smoothly and easily that the operator finds it less tiring than guns of smaller capacity. Prices, $3.00 to $5.00 each.

Hotbed and Greenhouse Putty

$1.35 to $2.75 per gallon; 5 gallons, $6.25 to $13.25.

Peerless Glazing Points 1,000 to the box at 75c.

Silent Yard-Man Lawn Mower

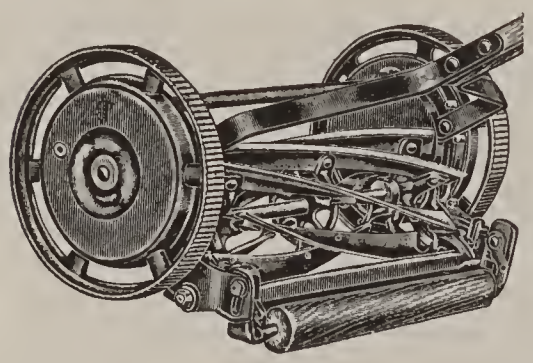


At last a truly Silent Lawn Mower. The Yard-Man is made of lighter and stronger material—steel being substituted for cast iron. Its construction and materials make it rugged enough for long life and strenuous service. All adjustments are made with one wrench, from the outside. The silence, light weight and ease of operation are amazing. In ordinary use, one oiling a season is all the Silent Yard-Man requires. All mowers are 5 blade.

14 inch	$15.45	18 inch	$16.95
16 inch	15.95	21 inch	19.95

Eclipse Lawn Mowers

We have handled the Eclipse Line of Lawn Mowers for several years and we believe they are one of the best values in Mowers. They are light, easy running and sure cutting, and make lawn cutting a pleasure. Higher priced models are self-sharpening. Prices quoted on request.



Bent Grass Lawn Mower

A special seven-blade mower that will cut extremely close and even. Recommended for Bent Grass lawns.

16 inch $15.50
18 inch 17.00

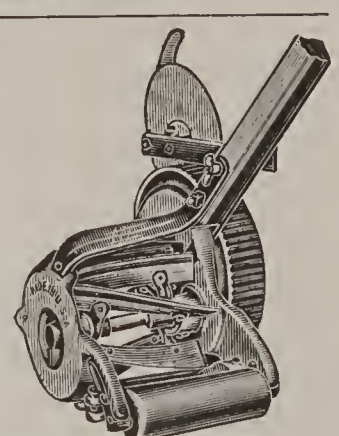
Sterling Lawn Mower

$4.85

A Good Low Priced Mower.

Diamond Lawn Edger And Trimmer

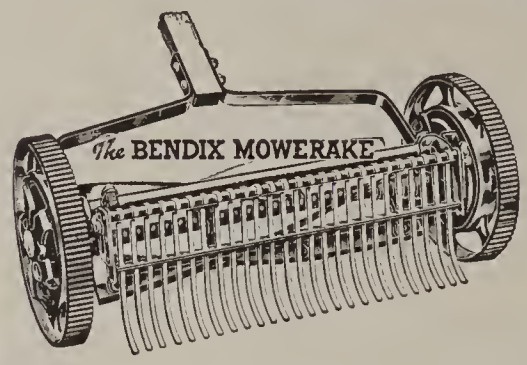
Diamond Lawn Edger and Trimmer is really like one-half of small Lawn Mower, with edging device attached. Allows you to trim all edges close to buildings, trees, etc. quick and clean. Reel has 4 blades and is 8 inches wide. Price, $8.90.



Lawn Mowers Sharpened

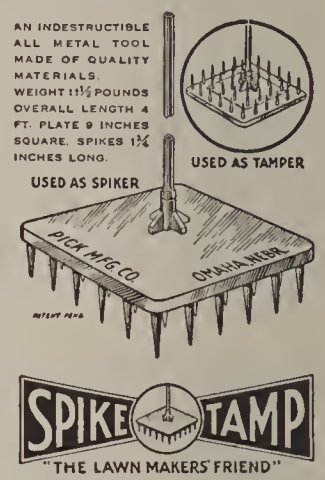
We have a fully equipped machine shop to sharpen all types of mowers, by an expert. We pick up, clean, sharpen, oil, adjust properly and deliver. Satisfaction Guaranteed. Call Garfield 5377 now; for a pick-up of your mower.

The Bendix Mowerake



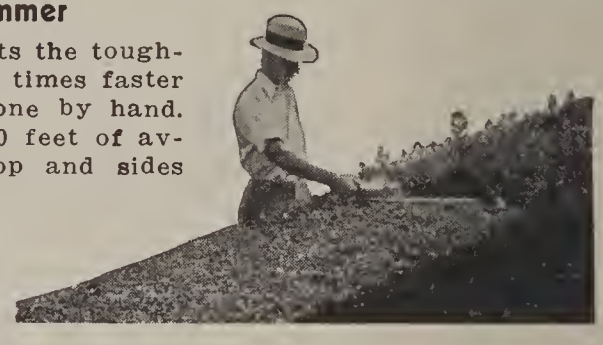
Banishes crab-grass and low-growing weeds. The Mowerake lifts up the seed-producing stems so that the mower cuts off these heads and prevents re-seeding. Quickly adjusted to any lawn mower. Prices, 14-16 inch, $1.85; 18-20 inch, $2.00. Prices for Silent Yard-Man Mower, slightly higher.

Spike-Tamp
A Two-in-One Tool



Spike-Tamp is a most useful lawn tool. Amazing results follow its use. Spike-Tamp is useful from early spring till late fall. Should always be used when seeding or when spreading fertilizer. Spiking aerates the soil, improves the drainage, and cultivates the roots. Grass seed planted should always be tamped. This tool is endorsed and used by U. S. Dept. of Agriculture, and by many thousands of home owners, institutions, parks and golf courses throughout the United States. Price, $4.50.

Electrimmer



Electrimmer cuts the toughest growth, ten times faster than can be done by hand. It will trim 100 feet of average hedge top and sides in 30 minutes.

Price, $29.50.
100 ft. rubber covered wire extension and connection, $3.85.

Diamond Hedge and Shrub Trimmer

It will trim vines and hedges four times faster than the old type shears. Made of hard-tempered, rust-proof steel. Price, $2.85.

Raffia (Natural or Green)

The best tying material for plants. Also used for basket making. **Natural:** ½ lb., 30c; 1 lb., 50c; 5 lbs. $2.25; 10 lbs., $4.00. **Green:** ¼ lb., 40c; ½ lb., 80c; 1 lb., $1.50. Postage extra on mail orders.

Grafting Wax

This Grafting Wax has an even consistency which will give best results for sealing cuts or bruises in fruit and shade trees. ¼ lb., 20c; ½ lb., 35c; 1 lb., 65c; 5 lbs., $2.25.

"Noc-Out" Hand Fertilizer Distributor

Is a new, inexpensive time and labor-saving device for distributing commercial fertilizers; convenient for sowing lawn seed and can be used as a duster for melons, cucumbers and all hill planted crops. Each, $1.00; postpaid.

Rubber Bulb Sprinkler

The best waterer for seedlings and house plants. Capacity about ½ pint. Each, 65c; postpaid, 75c.

Twine

Binder twine in 5 and 8 pound balls. Cotton twine in 4, 6 and 12-ply balls at market prices.

Gloves

We carry a large assortment of canvas, leather and rubber gloves.

Knives

We carry the finest quality budding, propagating, nursery and pruning knives.

Bird's Water Proof Paper Flower Pots

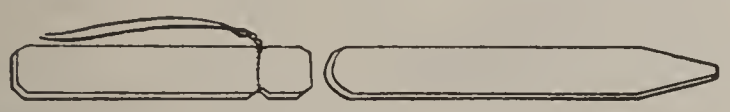
These pots are used in transplanting any kind of plants in the greenhouse and hotbeds, allowing them to become well rooted in the pot before setting in the open ground, thereby avoiding all setbacks from outdoor planting.

Size	Doz.	25	100	500	1000
2¼-in.	15c	25c	$0.75	$2.25	$3.80
2½-in.	15c	25c	.75	2.50	4.10
3 -in.	15c	25c	.75	3.00	5.10
3½-in.	20c	35c	1.00	3.75	6.60
4 -in.	20c	35c	1.15	4.25	8.00
5 -in.	25c	45c	1.75	5.50	10.50
6 -in.	35c	60c	2.25	7.25	14.00

The above prices do not include postage

Clay Pots and Saucers

We carry a complete line of earthenware flower pots and saucers from 2 to 12 inch sizes, also bulb pans. None sent by mail.



Garden, Pot and Tree Painted Labels

	Doz.	100	250	1000
Copper Wired Tree Labels, 3½ inches	$0.10	$0.50	$1.00	$2.95
Pot Labels, 4 inches.....	.10	.50	1.00	2.65
Pot Labels, 5 inches.....	.10	.50	1.00	2.65
Pot Labels, 6 inches.....	.12	.60	1.25	3.25
Garden Labels, 8 inches.....	.17	1.00	1.75	5.65
Garden Labels, 10 inches.....	.20	1.25	2.00	7.00
Garden Labels, 12 inches.....	.25	1.50	2.75	9.50
Garden Labels, 18 inches.....	.75	4.50	9.00	33.50

Plant Stakes

For supporting tall growing plants such as Gladioli, Delphinium, Dahlias, etc., in the garden. Prices below are f. o. b. St. Paul.

CANE STAKES, GREEN OR NATURAL BAMBOO

	Doz.	25	100	500	1000
2 feet	$0.15	$0.25	$0.75	$2.50	$4.00
3 feet	.20	.35	1.00	3.50	5.75
4 feet	.25	.40	1.25	5.00	9.00
5 feet	.30	.50	1.50	6.00	10.00
6 feet	.35	.60	2.00	8.00	14.00

Master's Fertilizer Distributor

A new and perfect machine for the even distribution of fertilizer or grass seed.

This machine is recommended by leading agricultural colleges, fertilizer manufacturers and highest authorities everywhere. Will last for years. You will be greatly pleased with this machine and the splendid work it does.

Master's Fertilizer Distributor

	Size	Capacity	Price
Model M-160	16 in.	40- 50 lbs.	**$11.00**
Model M-240	24 in.	60 lbs.	**14.50**
Model M-241	24 in.	65- 75 lbs.	**16.00**
Model M-361	36 in.	100-110 lbs.	**22.75**

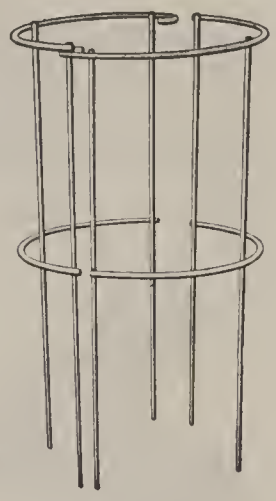
Models M-160 and M-240 have single disc wheels; Models M-241 and M-361 have double disc wheels.

Vigoro Fertilizer Spreaders

Vigoro Spreaders make quick work of lawn feeding and lawn seeding. They are made in four sizes, all with forced feed, shutoff control on handle and are adjustable for various rates of application.

Model "B"	20 lbs. capacity...	**$2.90**
Junior	35 lbs. capacity...	**6.00**
Standard	65 lbs. capacity...	**11.35**
Special	100 lbs. capacity...	**18.50**

Interchangeable Plant Supports



Made of steel wire, electric welded. Finished in green Bakelite enamel. Built in halves. Hooks together to form rigid plant support. Halves can be used separately for foliage in house borders. Is easily shaped by hand to support any particular bush or flower. Ideal for rose bushes, peonies, tomatoes, etc.

No. 10 wire, 14-in. dia., 21-in. high. Each, 25c.
No. 8 wire, 16-in. dia., 24-in. high. Each, 35c.
No. 6 wire, 18-in. dia., 30-in. high. Each, 45c.

We also carry many other styles of Plant Supports.

One and Two-Eye Stakes

Placed around a single plant, a group, or each side of a row, with twine strung tightly through the eyes, they make a strong support for plants and flowers.

One-Eye Stake.

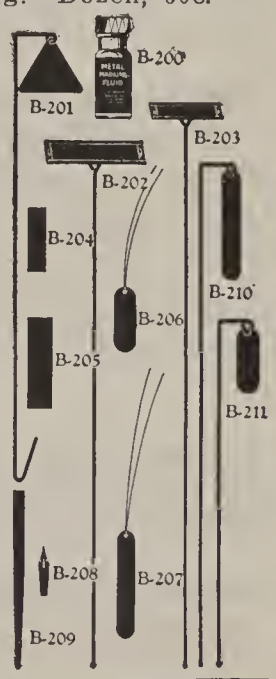
No. 8 Galv. Wire, 24 ins. long. Dozen, 30c.
No. 8 Galv. Wire, 36 ins. long. Dozen, 40c.
No. 8 Galv. Wire, 48 ins. long. Dozen, 50c.

Two-Eye Stake.

No. 8 Galv. Wire, 24 ins. long. Dozen, 40c.
No. 8 Galv. Wire, 36 ins. long. Dozen, 50c.
No. 8 Galv. Wire, 48 ins. long. Dozen, 60c.

Brandt's All Metal Garden Markers

All holders and tabs are made of non-rusting, non-corrosive metals. They are durable and low priced. See them when you are in our store or write for prices.



Hanging Baskets

For porch, sun-parlor or indoors. Just the basket for ferns or trailing vines. Attractively finished in harmonizing green enamel.

10-in. diameter. Ea. 25c; prepaid, 35c
12-in. diameter. Ea. 35c; prepaid, 45c

Hanging Basket Hook

An ideal hook for hanging bird cages, hanging baskets, ivy balls, etc., about the home. This hook is light and sturdy—well made—swings freely from side to side and is easily put up. Each, 20c.

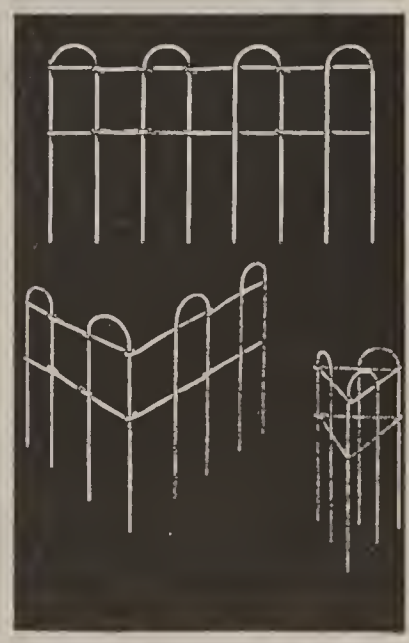
Sectional Ornamental Fence

Easily put together in any combination. Made in individual sections; aluminum finish.

No. 8 Wire, each section 24 ins. high, 16 ins. wide. Each, 15c.

No. 8 Wire, each section 30 ins. high, 16 ins. wide. Each, 18c.

No. 6 Wire, each section 36 ins. high, 16 ins. wide. Each, 20c.



Corner Guards

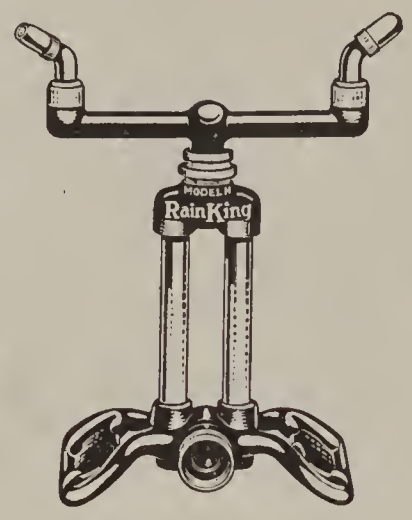
Built in halves and hooked together to form a rigid protection or support. Made of heavy wire, aluminized weather-proof finish. Each half 36 ins. long and 30 ins. high, tapering down to 12 inches. Per pair, 75c.

Try Vigoro in your flower garden. You will be amazed at the vitality your plants will show and the most wonderful blooms you will get.

Rain King Lawn Sprinklers

This new and improved Rain King is easily adjustable for fast or slow or stationary sprinkling. Works on all water pressures.

Model D. Price.....$2.85
Model H. Price..... 3.75
Model G. Price..... 3.95



Flaring Rose Hose Nozzle

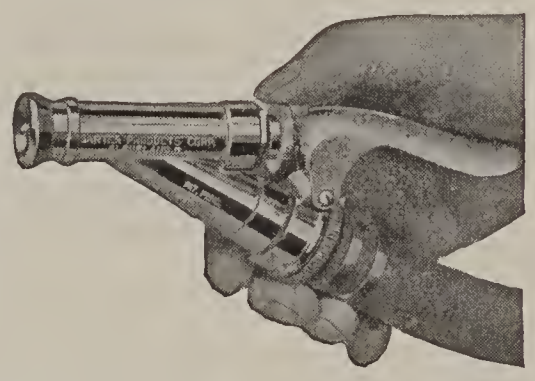
Distributes water in a soft fan-like spray. Especially valuable for sprinkling new lawns and flower beds. Price, 50c; postpaid, 60c.

Rainbow Lawn Sprinklers

One of the very best Lawn Sprinklers made—guaranteed to give perfect satisfaction. Throws a spray-like mist and rain combined over an area of from 40 to 50 feet. Rainbow Sprinklers will last indefinitely without care. Each, $1.48. Postpaid, $1.65.

Carter Lever-Spray Hose Nozzle

Stream or spray easily regulated by easy pressure of the hand. For lawn or garden, cleaning cars, porches or for any purpose. Price, $1.00.



Keystone Lawn Sprinklers

An unusually fine line of Lawn Sprinklers that you will admire. Come in and see our display. Priced from $1.00 to $7.50.

Economy Sprinklers

Outstanding sprinklers in several sizes to give the coverage you want. Prices, $3.50 to $15.00.

National **Eezy Wear** Garden Gloves

PROTECT YOUR HANDS
with these
SOFT LEATHER GLOVES

Specially designed to give you everything you want in a garden glove.

All-Leather DIRT-PROOF Durable
SOFT AS KID Easy to Wear WASHABLE

Economical, too—outwear 6 pairs of ordinary fabric gloves, are washable and can be used the year round for GARAGE, HOUSEWORK, PAINTING, YARD, FURNACE, ETC. Sizes for WOMEN (small, medium, large) and MEN (small, medium, large). A real value at 75 cents a pair, postpaid. (2 prs. $1.40.)

Diamond Hedge and Shrub Trimmer

It will trim vines and hedges four times faster than the old type shears. Made of hard-tempered, rust-proof steel. Price, $2.85.

GARDEX Bow-Pull Hoe

For weeding and cultivating. Special steel cutting blade will cut toughest weeds. Price, with 5-ft. handle, 7 ins. wide, $1.30; 8 ins. wide, $1.35; 12 ins. wide, $1.80.

Gardex Bow Rake

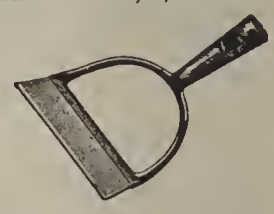
High carbon steel. Easy to handle—balanced to rest easily in hand without tiring arm. No wobbling handle—has famous GARDEX handle connection. Price with 5-ft. handle; 12 tooth, $1.00; 14 tooth, $1.10; 16 tooth, $1.20.

Gardex Lawn Sweep

A distinct improvement over other lawn rakes used broom-fashion because all twenty-two fingers touch the ground when it is swept across the lawn, giving full benefit of entire 18-inch width. Made of special tempered spring steel. Flat, flexible fingers do not pull roots of grass plants. Well balanced and light in weight. Painted red. Complete with 42 inch handle, $1.00.

Gardex Schuffle Hoe

A push-type hoe used extensively for cutting weeds in driveways and gardens. The blade is made of special high-grade steel, as thin as a saw blade, and will always stay sharp. Complete with 5-ft. handle, painted green, polished blade, 7 in. wide, $1.25.



Gardex Pull Hoe Weeder

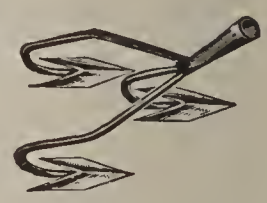
With Diamond Point Share. Weeds at least five times faster and easier than old chopping hoe. Penetrates any soil with easy pull, cutting all weeds in its path. You will marvel at its performance. Complete with 5-ft. handle, width, 5 inches, $1.50.

Gardex Beet Hoe

The favorite of sugar beet growers, it is also popular for working among onions, celery and similar truck crops. Satisfactory for use in all types of soil, it weeds and cultivates at the same time. Made of a special high grade steel, thin as a saw blade. Will not become dull, resharpening itself while in use. Painted green, polished blade. Price, with handle; 7 in. width, $1.25; 8-in. width, $1.30; 9-in. width, $1.65.

Gardex Cultivator

With the new GARDEX patented Diamond Point Shares. Use this tool instead of the old chopping hoe for five times faster and better work. It pulls easily through the soil without using pressure. The action of the tool itself keeps it in the ground. Complete with 5-ft. handle, 3 prongs, 6 ins. wide, $1.35.



Soil-Soaker

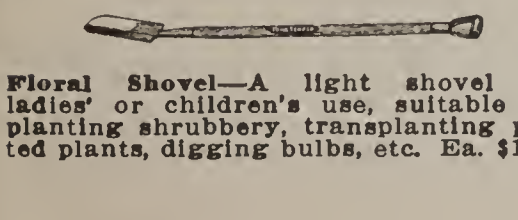
Is made of porous canvas and especially useful for watering terraces, narrow places, flower gardens and hedges. Soil-Soaker screws to the end of water hose, replacing the nozzle or sprinkler. When the water is turned on, Soil-Soaker fills with water—and normal pressure forces water through the pores of the entire surface of Soil-Soaker, uniformly, without spray. Easily moved without shutting off water, or getting wet. 18-ft. size, $1.80; 30-ft. size, $2.80.

Doo-Clip Grass Shears. Each, $1.50; by mail, $1.60

Grass Shears. Prices, 50c to $1.25.

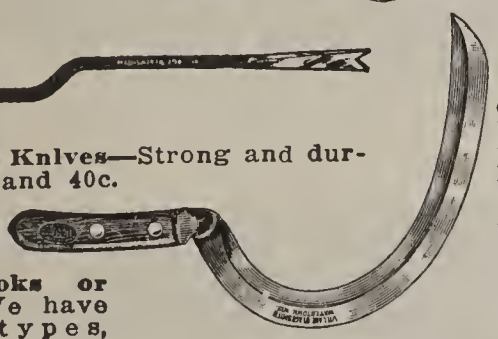
Cut Flower Shears. As above. Each, 65c; postpaid, 75c.

Cut Flower Shears. Silver Plated. As shown below. Holds cut stem. Each, $2.00; postpaid, $2.10.

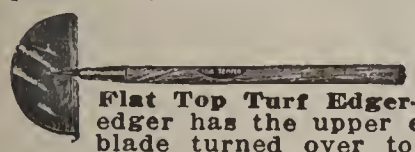


Pruning Shears Made of best tempered steel. Prices, 65c to $4.25.

Asparagus Knives—Strong and durable. 30c and 40c.

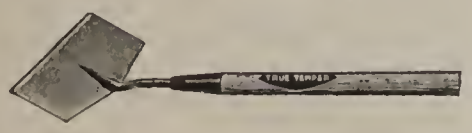


Grass Hooks or Sickles—We have several types, priced 50c, 75c, 80c.



Flat Top Turf Edger—This turf edger has the upper edge of the blade turned over to furnish a flat surface for the foot. Each, $1.15.

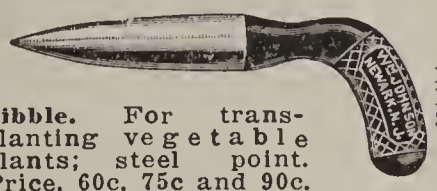
Cultivator—A popular hand cultivator. The spread and number of teeth are adjustable. 5-tooth cultivator, $1.25. 3-tooth, $1.10.



Steel Scuffle Hoe—A very practical weeder and mulcher. Each, $1.00.

Floral Shovel—A light shovel for ladies' or children's use, suitable for planting shrubbery, transplanting potted plants, digging bulbs, etc. Ea. $1.00.

Garden Tools. In this book we have listed only a few of the garden tools we carry. Drop in and see our complete line. We have what you want.

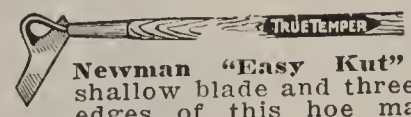


Dibble. For transplanting vegetable plants; steel point. Price, 60c, 75c and 90c.

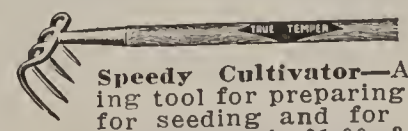
Grass Catchers. Made of heavy galv. sheet iron and heavy white canvas. For 14-16-inch mower size, $1.00; 18-20-inch mower size, $1.25.

Double Hose Connection. Allows the use of two lines of hose from a single outlet. Price, 75c.

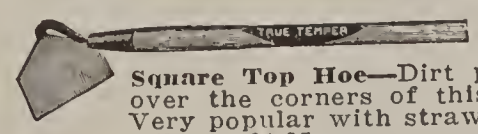
Lawn Edgers—Several styles. Priced $1.50 to $1.75.



Newman "Easy Kut" Hoe—The shallow blade and three sharpened edges of this hoe make it unequalled for mulching and killing weeds. Each, $1.25.



Speedy Cultivator—A time-saving tool for preparing the ground for seeding and for cultivating. 4 prong, each, $1.00; 3 prong, 90c.

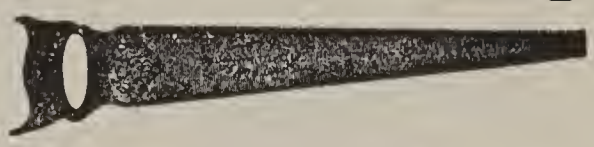


Square Top Hoe—Dirt passes over the corners of this hoe. Very popular with strawberry growers. Each, $1.25.

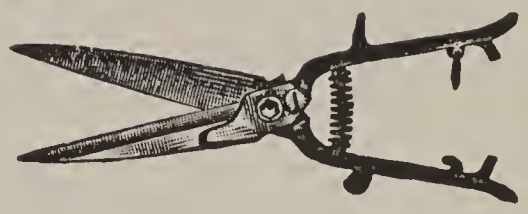
Level Head Steel Rake—Forged from one solid piece of steel. Ideal for gardening. Curved, 14-tooth rake. Each, $1.35.

Hedge Shears. Price, 80c to $1.15.

Hedge Shears. Price, 90c to $3.00.

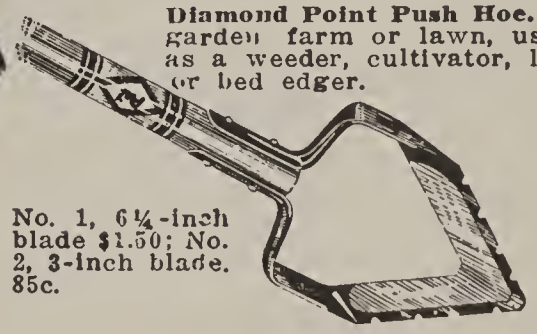


Pruning Saw. Price, $1.25 to $2.25.



Grass Shears. Blades of best steel. Price, 90c; $1.00 postpaid.

Diamond Weeder. A big favorite for weeding vegetable crops. Each, 25c.



Diamond Point Push Hoe. For garden farm or lawn, use it as a weeder, cultivator, lawn or bed edger.

No. 1, 6¼-inch blade $1.50; No. 2, 3-inch blade. 85c.

Extra heavy steel weeders.

12-inch size .....Each, 25c
40-inch size .....Each, 35c

Socket Garden Trowel—Drop shank pattern. Will outlast several of the cheaper trowels. Each, $1.00.

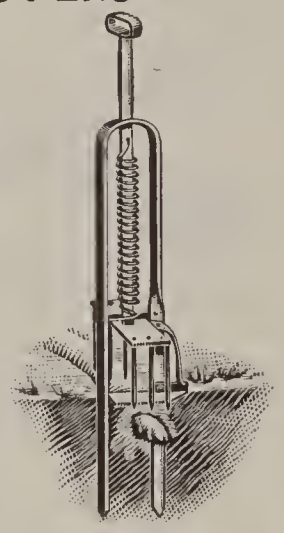
Round Bow Steel Rake—The best seller in rakes. Slightly curved teeth. 14-tooth rake, $1.35; 16-tooth rake, $1.50.

Waters Tree Pruner

8 foot.	Each	$2.25
10 foot.	Each	2.50
12 foot.	Each	2.75

RODENT DESTROYERS

Reddick and Little Giant Mole Traps



No mole can pass under these traps and live. Golf courses, cemeteries, parks, beautiful lawns, gardens and farms are all prey to this past master of the art of excavation.

Reddick Mole Trap. Each, $1.25.

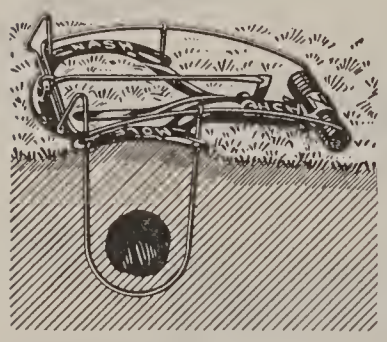
Little Giant Mole Trap. Each, $1.10.

Macabee Gopher Trap

This is the most successful Gopher Trap ever offered. It is simple and easy to set, and a sure catch. Each, 30c; doz., $3.00.

Schroeter Mole Trap

The Schroeter Improved Mole Trap is designed particularly for trapping Ground Moles. One of the very best and successful mole traps made today. $2.00, postpaid.



Nash Mole Trap

The Nash Mole Trap

Recommended by U. S. Biological Survey, catches the mole in all kinds of ground when properly set. Clods or stones cannot prevent perfect operation. This trap catches the mole when it comes from either direction. If properly set, you cannot fail with the Nash Mole Trap. $1.50, postpaid.

Sweeney's Poison Wheat

Sure death to rats, mice, moles and gophers. Price, 15c, 30c, and 60c, carton.

Gopher Death

A poison in tablet form—easy to use. **"Gopher Death"** is made of food the rodents love and seek and the poison is so carefully concealed in the tablets they do not detect it. Kills pocket gophers, ground squirrels, etc. 35c and 75c sizes.

Cyanogas (Calcium Cyanide)

Cyanogas A. Dust. For ants, moles, rats, gophers. Grade "A" Cyanogas is recommended because of its ease of application and high efficiency. Highly recommended for rat control. 4 oz., 30c; ½ lb., 45c; 1 lb., 75c; 5 lbs., $3.00.

Dead Sure Rodent Destroyer

A poison gas cartridge that kills gophers, squirrels, moles, rats or any animal that burrows in the ground. 5c each, 50c a doz., $5.00 a gross.

Force's Diamond Mole Killer

Wonderful results have been obtained by many of our customers in ridding their places of moles and gophers. You drive a hole with a stick, then into this drop a Killer that does the work effectively without injury to plants or shrubs. Price, 50c, $1.00.

Gould's Minnesota Gopher Poison

A pocket gopher poison put up according to the formula recommended by the University of Minnesota. If you are troubled with pocket gophers try this proven remedy. Price, 50c.

K-R-O (Kills Rats Only)

This wonderful exterminator, K-R-O, will rid your premises without endangering your pets, livestock, poultry, etc. Is harmless to animals other than rats and mice. Sold in 75c and $2.00 sizes. Ready mixed bait, small size, 35c; 22 oz., $1.00.

Mouse and Rat Seed

A seed treated with a chemical, that due to its peculiar flavor the mice or rats eat in preference to anything else. As soon as they eat the kernel, they go outside for air and water and die. Has been tested and approved by the Good Housekeeping Institute. Mouse Seed, 25c; Rat Seed, 50c.

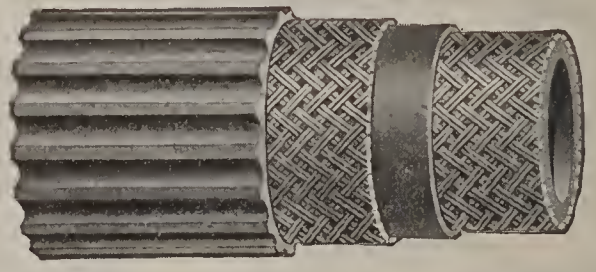
LAWN, GOLF COURSE AND CEMETERY EQUIPMENT

In keeping with our established reputation of 40 years for handling the very best grade of seed and other garden products, we aim to carry only worth while lawn and golf course equipment. Detailed information regarding any of the listed lawn or golf course equipment will be gladly sent by return mail. If you would like a demonstration of our power lawn mowers, sprinklers, or other equipment, please let us hear from you. It will be arranged for your convenience and will place you under no obligations whatsoever.

The New Improved Springfield Lawn Sweeper

For Golf Grounds, Cemeteries, Parks, Estates, Etc. The Springfield Sweeper is the only practical sweeper for golf greens. It gently collects fresh cut or dead grass, paper, sticks, stones and leaves without harming the grass itself. The action of the revolving brush is beneficial to the turf. It raises the low-growing crab grass and other spreading weeds, so that the lawn mower can cut off the seed pods before they ripen. New model is made mostly of aluminum parts and is much lighter and carrier larger. Price, **$40.00.**

Lawn Hose



We have a complete assortment of Lawn Hose at all prices. See our stock before you buy.

Golf Barrow

A wheelbarrow designed especially for use on golf courses, cemeteries and parks. Can be used on the lawns or greens without the use of planks or boards.

With ball-bearing pneumatic tired wheel.....**$16.75**

Rubber-tired wheel only.....**$8.50**

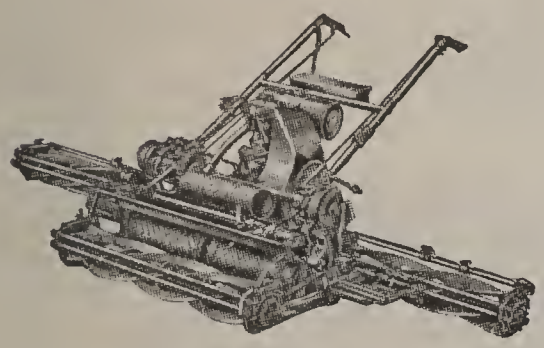
Steel Tray Barrow

A light steel wheelbarrow with a tray that will hold a REAL LOAD, and at a price no higher than you pay for a common wood tray barrow. Legs and braces of steel. Steel wheel. Weight, 45 pounds. Price, **$5.75.**
Same barrow with pneumatic tire, **$10.50.**

Golf Course Equipment

We carry a full line of the following golf course equipment: Flags in several colors. Flag poles both steel and wood. Hole cutters. Putting cups aluminum or cast iron. Cup setters. Ball washers and repair parts for same. Please write for prices if interested.

The Locke Power Lawn Mower and Trimmer



(Two Machines in One)

Four sizes, 25, 30, 70 and 75-inch machines.

Descriptive catalogue will be sent or free demonstrations will be arranged for on request.

LAWN KING

24-Inch Cutting Width

$185.00

F. O. B. Factory

The Lawn King meets the demand for a small quality-built power mower at a low price. It is ideal for suburban homes, small parks, cemeteries and estates. Its light weight and compactness permit its speedy, handy operation among trees, on hillsides or terraces and other hard-to-get-at places. The Lawn King has the strength and stamina to insure long, repair-free service —and the capacity to get a lot of work done quickly. It is so simple in construction that any high school boy can operate it.

JACOBSEN POWER MOWERS

PRICES ON OTHER MODELS FURNISHED ON REQUEST.

A mower for every purpose. Demonstrations to prospective buyers. Illustrated and descriptive catalog on request.

LAWN QUEEN

20-Inch Cutting Width

$87.50

F. O. B. Factory

For homes with moderate size lawn areas, where time-saving and labor-saving is a factor in assuring continuous fine appearance, the Lawn Queen is the answer to beauty and smart maintenance. Easily operated by almost any member of the family. The Lawn Queen is exceptionally simple to start, easy to manipulate and amply powered to handle any lawn-cutting requirements.

4-ACRE

24-Inch Cutting Width

$305.00

F. O. B. Factory

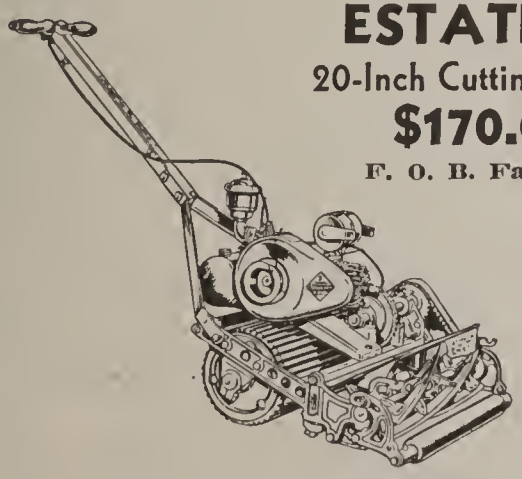
The built-in features make the 4-Acre a standard of power motor performance and economy in the heavy duty class. All gear enclosed drive, automotive type differential, and separate reel and traction clutches give operator easy and positive control under all ground conditions. Riding sulky also available.

ESTATE 20

20-Inch Cutting Width

$170.00

F. O. B. Factory



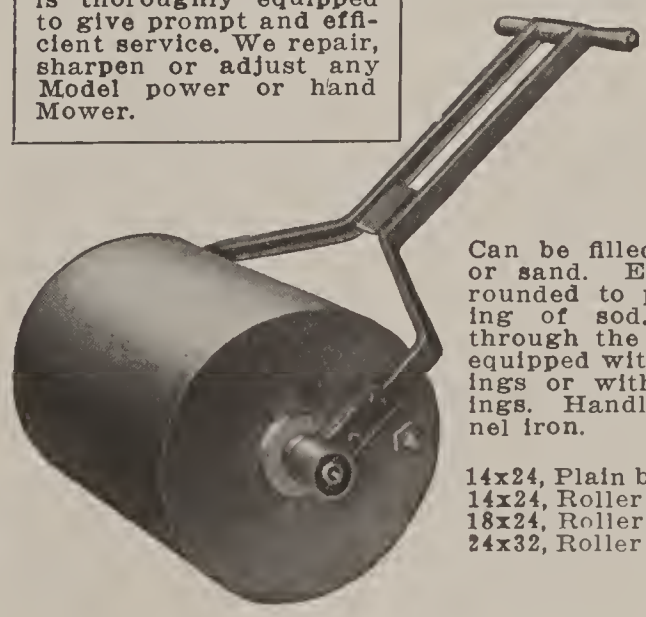
The "Estate 20" is recommended for owners of moderate size lawns who prefer a roller-type mower. Its gentle rolling action gives the lawn a putting green surface. It is compact in design and will cut right to the edge of walks and flower beds, eliminating the necessity of hand trimming. The "Estate 20" is a quality built mower—embodying the many time-tested features that have established Jacobsen supremacy.

SERVICE DEPARTMENT

Our service department is thoroughly equipped to give prompt and efficient service. We repair, sharpen or adjust any Model power or hand Mower.

LANCO

Water Ballast Roller



Can be filled with water or sand. Edge of drum rounded to prevent tearing of sod. Axle runs through the roller and is equipped with roller bearings or with plain bearings. Handle is of channel iron.

14x24, Plain bearing **$ 8.25**
14x24, Roller bearing **10.75**
18x24, Roller bearing **12.75**
24x32, Roller bearing **19.50**

Baby Chicks

We offer you our famous day-old chicks in the following varieties produced under a "Master-Mating" Program guaranteeing you More Profit from Your Market Poultry and Eggs.

This "Master-Mating" Program Assures:

Livability. **Better Health.**
Faster Growth. **High Flock Average Egg Production.**
Early Maturity. **Large Size Eggs.**

Prices effective March 1, 1939. Price per 100 Chicks.

Breeds	Utility	Grades A	AA	AAA
White Leghorns (Large English strain)	$7.50	$8.00	$9.00	$12.00
Brown Leghorns	7.50	8.00	9.00	.....
Buff Leghorns	7.50	8.00	9.00	.....
White Rocks	8.00	9.00	10.00	13.00
Barred Rocks	8.00	9.00	.....	13.00
Buff Rocks	8.00	9.00	.....	13.50
New Hampshire Reds	9.00	10.00	.....	13.50
Rhode Island Reds (S.C.)	8.00	9.00	.....	13.50
White Wyandottes	8.00	9.00	.....	13.50
Buff Orpingtons	8.00	9.00	.....	13.50
White Minorcas	....	9.50	.....	.....
Buff Minorcas	....	9.50	.....	.....
Heavy Mixed	7.00	8.00	.....	.....

A 25% deposit is required with each order. Balance before shipment or C. O. D. if desired.

DISCOUNTS—All grades and varieties of chicks one-half cent less in 500 lots. All grades and varieties of chicks 1 cent more in lots of 50.

Four Grades of "Master-Mated" Chicks

A—This is our regular standard quality chick. All of these chicks come from flock matings that measure up to our most rigid requirements for health, vigor and high egg production combined with exhibition qualities.

AA—All chicks produced from these matings come from sires whose dams under the trapnest laid 150 or more eggs in their pullet year in the White Rocks, and 200 or more eggs in the White Leghorn variety. Egg production in this grade will far exceed our Regular Standard Grade.

AAA—Our most popular grade—and here is real egg production. The sires heading our Triple A matings in the White Rocks, S. C. Reds and Barred Rocks all come from dams that laid 200 or more eggs (many over 225 eggs) under the traps in their pullet year. White Leghorns over 225 eggs and many over 250 eggs. The other varieties are not headed by trapnested stock but are outstanding matings in each breed, selected for superior egg production and exhibition qualities.

UTILITY—Our lowest priced grade. These chicks come from matings which do not quite measure up to the high quality we require for our regular standard "A" grade. Well worth the money.

POULTRY FEED AND SUPPLIES

See our Cackler and Price List for prices on a complete list of feeds. The Cackler is issued at intervals so that our customers may be kept informed of prevailing market prices. All prices printed in this book are subject to change without notice. All quotations are F. O. B. St. Paul. If goods are to be sent by Parcel Post add postage.

Charcoal
Charcoal is one of the greatest disease preventatives for poultry. It aids in digestion, purifies the blood and regulates the bowels, fowls young and old should have access to it at all times. In three sizes—fine, medium or coarse. 25 lbs., 70c; 50 lbs., $1.20; 100 lbs., $2.25.

Oyster Shell
Contains carbonate of lime, of the same composition as eggshell. As other feeds contain very little of this mineral matter, the hens need Oyster Shell at all times, to produce eggs. 25 lbs., 35c; 50 lbs., 60c; 100 lbs., $1.00.

Mica Crystal Grit
Is a necessary aid in digestion for both small and large birds. Keep before the fowls at all times. Two sizes—fine and coarse. 25 lbs., 40c; 50 lbs., 75c; 100 lbs., $1.40.

Purina Checkerboard Feeds
Strictly quality feeds—plus Pur-A-tene which steps up Vitamin A activity 2½ times.

Chick Startena	Lay Chow Mash	Fatena
Chick Chow	Turkey Startena	Fox Chow
Chick Growena	Turkey Growena	Mink Chow
Growing Chow	Hen Chow	Rabbit Chow
Layena	Family Flock	Dog Chow

Prices are listed on special Feed Price List. Quantity prices quoted on request.

Foust's Pigeon Health Grit
Gives health, vim and vigor to both young and old birds. Raisers have found it unequaled as a tonic and for fattening squabs. 25 lbs., 80c; 50 lbs., $1.50; 100 lbs., $2.75.

Dried Buttermilk
Dried Buttermilk is pure fresh buttermilk with water only removed and nothing else added. 19 lbs., $1.00; 25 lbs., $1.25; 50 lbs., $2.45; 100 lbs., $4.75.

Animal-Poultry Yeast Foam
Gives the vim to the chicks to grow and hens to lay. Assists the birds in digesting their food, especially the starches found in such large quantities in all poultry feeds. 4-lb. containers, postpaid, $1.00.

Purity Stock and Poultry Yeast
Means more eggs, more vitality in your flock. Prevents bloat and scours in cows or calves. 10 lbs., $1.50.

Pure Norwegian Cod Liver Oil
This is the highest grade of oil for poultry and stock only. 1 qt., 55c; ½ gal., 85c; 1 gal., $1.50. Prices in your own container or in a 30-gallon barrel, quoted on request.

Pulvex
Pulvex is a non-poisonous powder to use on any animal including canaries; particularly dogs, cats, foxes, poultry and large animals to control lice, fleas, ticks and mites. Prices: ¾ oz. size, 25c; 2 oz., 50c; 12 oz., $1.25.

Sodium Fluoride
The U. S. Department of Agriculture highly recommends the use of Sodium Fluoride, a fine powder, for freeing the fowls of lice. One application will entirely rid the birds of lice. 1 lb. treats about 125 birds. 1 lb., 50c.

Stanfield's Lice-Kill
Kills body lice on chickens, head lice on chicks; also used for scaly leg. One of the best lice-killers; guaranteed to kill every louse on the fowl or money will be refunded. Tube, for 200 fowls (postpaid), 60c. Two tubes (postpaid), $1.00.

Avenarius Carbolineum
Kills and stops the propagation of chicken mites or fowl ticks in poultry houses for a whole year. Disinfects deep cracks and crevices, where vermin and disease germs propagate. One gallon covers 100 to 200 square feet. Preserves wood against rot. 1 gal., $1.50.

Gold Leaf Tobacco Powder
Controls poultry round worms. 2 lbs., 25c; 10 lbs., $1.00; 60 lbs., $5.00.

Epsom Salts
For poultry. 1 lb., 10c; 5 lbs., 30c.

Avicol
Your loss of baby chicks CAN BE STOPPED—easily, quickly. Avicol is a special bowel antiseptic. It stops disease and prevents its spread by destroying germ life and helping the chicks withstand infection. Price, 50c; special large size (almost 3 times 50c size), $1.00.

Don Sung
A Mineral Compound that Scientifically Helps Nature. Don Sung is a balanced mineral conditioner. It improves the hen's health, tones up her egg-laying organs, and makes her stronger and more productive. Prices: Trial size, 50c; large size, $1.00; holds 3 times the 50c size.

Group-Over. A Soothing Antiseptic
Roup is one of the most serious of poultry diseases. Keep Group-Over on hand and at the first symptoms of a cold in your flock, give it to every affected bird. It clears the air passages and brings relief with magic quickness. Easily given. Comes in a liquid form and a few drops does the work. Price 50c; large size (three times 50c size), $1.00.

DR. HESS'S PREPARATIONS

Dr. Hess Poultry Pan-a-min. Acts as a corrective and tonic on the dormant egg organs as well as on the digestive organs. Contains internal antiseptics that counteract disease; small size, 25c; 3 lbs., 45c; 7 lbs., 95c; 15 lbs., $1.90; 25 lbs., $2.85; 100 lbs., $9.40.

Dr. Hess Chick Tablets. For the treatment of diarrhea in either chicks or large fowl. 25c, 50c and $1.00.

Dr. Hess Dip and Disinfectant. A sure germ and parasite destroyer, good as a dip or for spraying. One gallon of dip makes from 70 to 100 gallons of effective solution. 12-oz. size at 40c; 1 qt. 65c; ½ gal., $1.15; 1 gal., $1.75.

Dr. Hess Poultry Tablets. Will help cure the most obstinate case of roup. 25c, 50c, and $1.00.

Dr. Hess Hog Special. A conditioner and mineral supplement for hogs only. Acts as a general conditioner and appetizer. 1½ lbs., 25c; 3 lbs., 45c; 7 lbs., 95c; 15 lbs., $1.90; 25 lbs., $2.85.

Dr. Hess Instant Louse Killer. Kills lice on poultry, horses and cattle, sheep ticks, bugs on cucumbers, squash and melon vines, cabbage worms, etc. 1 lb., 30c; 2½ lbs., 65c; 6 lbs., $1.25.

Dr. Hess Fly Spray. Will rid your barn of flies and mosquitoes. 2-qt. size 95c; 1 gal., $1.50.

Dr. Hess Improved Stock Tonic. Makes ailing animals healthy—the whole herd thrifty—it expels worms. 3 lbs., 45c; 7 lbs., 95c; 15 lbs., $1.90; 25 lbs., $2.85; 100 lbs., $9.40.

Dr. Hess Poultry Worm Powder. This is a single dose flock treatment which does not harm the birds or affect egg production. It is not necessary to starve birds before or to give laxative after treatment. 50-bird size, 50c; 100-bird size, 90c; 250-bird size, $1.90; 500-bird size, $3.00; 1,000-bird size, $5.40.

Dr. Hess Poultry Worm Tablets. These are odorless, tasteless and non-toxic to poultry. The nicotine in the tablet is combined in such a manner that it is not released in the mouth, throat, crop or gizzard, but is released full strength in the intestine where the large worms live. 40-tablet size, 50c; 100-tablet size, $1.00; 250 tablet size, $2.00; 500-tablet size, $3.50; 1,000-tablet size, $6.50.

LEE'S PREPARATIONS

Acidox. To aid in the prevention and treatment of coccidiosis. 4 oz., 50c; 12 oz., $1.00.

Lee's Dip and Disinfectant. Exceptionally powerful as a disinfectant and germicide. 1 qt., 60c; ½ gal., 90c; 1 gal., $1.50.

Lee's Gizzard Capsule. For Worms in Poultry. A capsule worm medicine for tapeworms, roundworms and pinworms. Prices: Adult size Gizzard Capsules: 50 capsules, 75c; 100 capsules $1.25. Pullet size: 50 capsules, 50c; 100 capsules, $1.00. The chick size: 50 capsules, 40c; 100 capsules, 75c, postpaid.

Lee's Lice Killer. In liquid form. Painted on the roosts, the vapor kills lice on the bodies of the chickens as they roost at night. Qt., 60c; 2-qt. size, 90c; 1 gallon, $1.50.

Lee's Germozone. One of the very best remedies for poultry affected with colds, cholera, roup, bowel trouble, sour crop, sore head, etc. Add Germozone to the drinking water, thereby killing the germs that cause disease.

4-oz. liquid	$0.40	½ gallon, liquid	$2.50
12-oz. liquid	.75	Gallon, liquid	4.50
32-oz. liquid	1.50		

Lee's Vapo-Spray
For the relief of coughs, due to colds and minor bronchial irritations in poultry and swine. Vapo-Spray is a combination of oils having a germicidal and soothing action. 1 qt., 75c; ½ gal., $1.25; 1 gal., $2.00.

Walko Tablets
A wonder-working medicine for the treatment and prevention of White Diarrhea, Roup and Cholera. 50c, $1.00 and $4.00 sizes.

Carbola
Carbola is a white paint and powerful disinfectant combined in powder form. It is ready to use as soon as it is mixed with water. It can be easily and quickly applied with brush or spray pump. Disinfects and dries pure white. Does not flake or peal off. One pound covers 100 sq. ft.
The dry powder is an excellent louse powder. 25 oz., 25c; 5 lbs., 60c; 10 lbs., 98c; 50 lb. bag, $3.50.

Creokote. Disinfectant White Paint
Creokote disinfects and paints at one operation. Use the dry powder on dropping boards and in the nests in poultry houses. As a paint, 5 lbs. of Creokote will cover from 400 to 600 square feet of surface. 5 lbs., 40c; 10 lbs., 75c; 25 lbs., $1.50; 50 lbs., $2.50.

Chlorin 2000
A powerful germicide, disinfectant and deodorizer for home use or farm. A concentrated sodium hypochlorite solution for dairy and creamery sterilization. A few drops in the drinking water is a disease preventative for chicks or older fowls. 1 qt. 50c; 1 gal., $1.25; 4 gals., in case, $4.00.

B-K (Bacili-Kil)
Bacili-Kil or commonly called B-K is one of the most powerful germicides and disinfectants, being even more effective than pure carbolic acid and still non-poisonous. We do not hesitate to recommend it for general use in the home, poultry house or barns. Trial size, 30c; medium size, 50c; 1 qt. 90c; 1 gal., $2.00; 5 gals., $8.50.

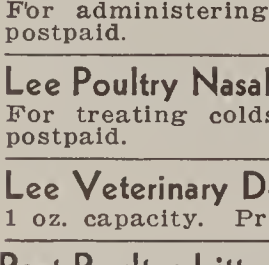
Ray-Zem
Prevents blackhead in turkeys. Write for prices.

Paint the Perches
Nothing you can do for your flock will pay greater dividends.

Spreads Farther—Lasts Longer. Apply in the fall or by all means before brooding time in the spring. One pint treats 300 to 400 running feet of perches or 450 to 600 chickens.

Price: 2-oz. tubes, 35c; 5-oz. tubes, 85c; pints, $2.00; quarts, $3.00; gallons, $8.50.

"Black Leaf 40" for Poultry Lice
"Black Leaf 40" painted on the top side of the roosts controls body lice. Saves the labor of handling each bird either to dust, dip or grease. "Black Leaf 40" does not harm the birds nor retard egg production.
Prices: 1-oz. bottle (treats 60 running feet of roost), 35c; 5-oz. bottle, $1.00; 1 lb., $2.25; 2-lb. tin, $3.25; 5 lbs., $5.85; 10-lb. tin, $10.60.

Thermostat Wafers


Wafers to fit any incubator or brooder. State make of incubator or brooder when ordering.

Size, 3 inch. Each, 25c; 30c postpaid.
Size, 4 inch. Each, 35c; 40c, postpaid.

Thermometers
Brooder. Each ..... 50c to 85c
Incubator. Each 50c
Greenhouse. Each ..... 55c to $1.10
House. Each ..... 35c to 1.10

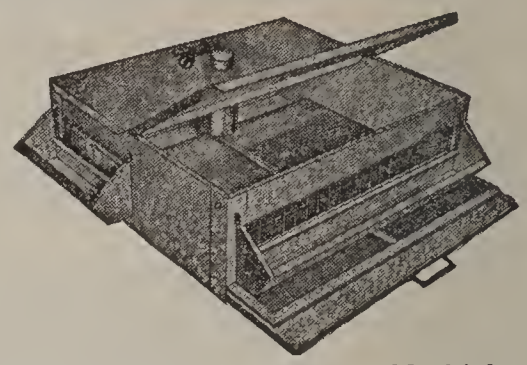
Lee Poultry Dosing Syringe
For administering medicines into the crop. Price, 30c postpaid.

Lee Poultry Nasal Syringe
For treating colds, roup and swelled head. Price, 75c postpaid.

Lee Veterinary Dosing Syringe
1 oz. capacity. Price, $1.25 postpaid.

Peat Poultry Litter (Imported)
One bale covers about 350 sq. feet, one inch deep. Price, per bale, $3.25.

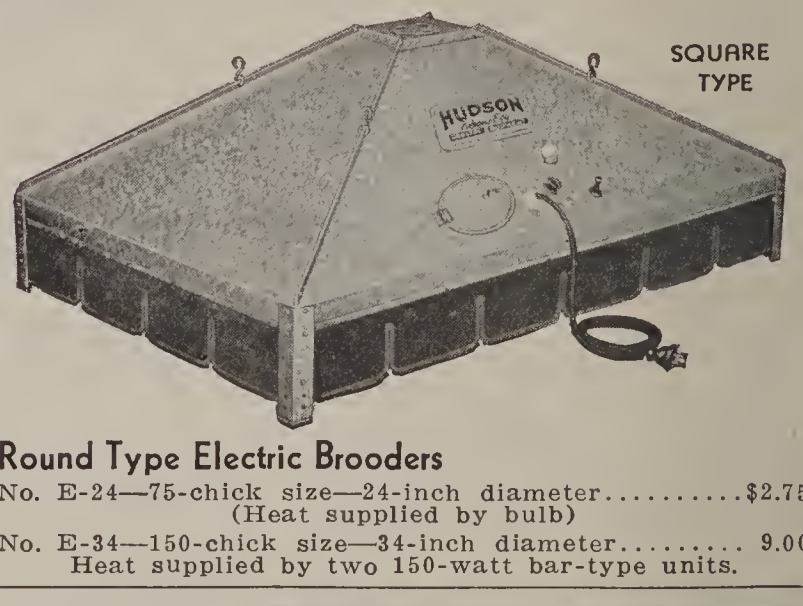
Electric Battery Brooder
Price $4.00



This brooder has a capacity for up to 50 day-old chicks. Operates on any current, uses standard bulb, 60-watt or smaller. Floor is framed hardware cloth ½-in. mesh. Both tray and floor removable. Feeding trough in front; water trough at side; both removable.

Square Type Electric Brooders
Plenty of heat is provided by two totally enclosed bar-shaped heating elements under bright, aluminum finished reflectors—deflecting heat in evenly diffused rays. Two red attraction lamps reflect a warm, heat-like glow at all times. Foul air is exhausted through the center flue which extends down near the floor line. Adjustable air regulator. Desired temperature automatically maintained by positive Thermostat control.

No. 3838—200-chick size (38 in. x 38 in.) $21.85
2—200-watt elements.
No. 4054—300-chick size (40x54) 28.75
2—300-watt elements.
No. 4872—500-chick size (48x72) 36.85
2—500-watt elements.

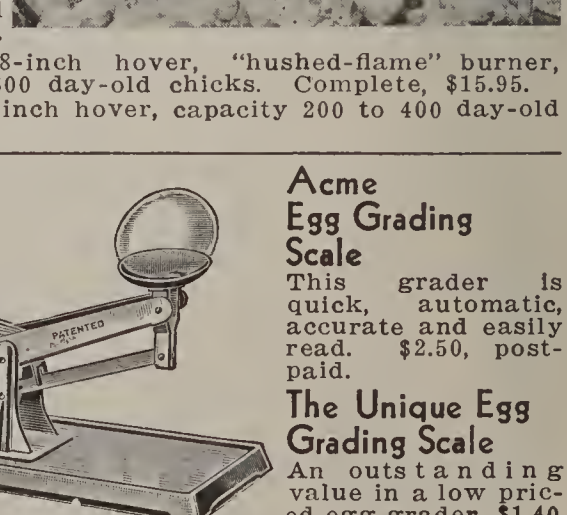


SQUARE TYPE

Round Type Electric Brooders
No. E-24—75-chick size—24-inch diameter $2.75
(Heat supplied by bulb)
No. E-34—150-chick size—34-inch diameter 9.00
Heat supplied by two 150-watt bar-type units.

Hudson Oil-Burning Brooder
Equipped with "silent" burner, has no soot, no carbon, no roar.

No. 255, with 54-inch hover, for 500 to 1,000 day-old chicks. Complete, with oil tank stand $19.95.



No. 148, with 48-inch hover, "hushed-flame" burner, capacity, 300 to 600 day-old chicks. Complete, $15.95.
No. 52, with 42-inch hover, capacity 200 to 400 day-old chicks, $10.95.

Acme Egg Grading Scale
This grader is quick, automatic, accurate and easily read. $2.50, postpaid.

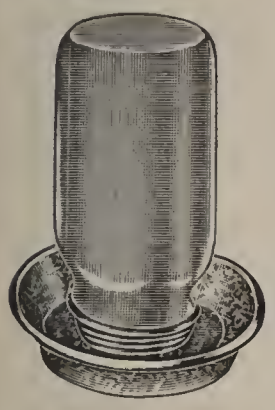
The Unique Egg Grading Scale
An outstanding value in a low priced egg grader. $1.40 each, postpaid.

Chick Fountains

Popular priced fountain in two sizes. Invert to fill, cupped pan snaps on securely. May be carried without spilling or over-running. Ribbed cone top prevents roosting.

No. O1. 5 qt. Each.....55c
No. O2. 2 gal. Each 80c

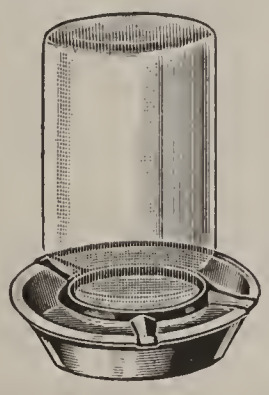
Mason Jar Chick Fountains



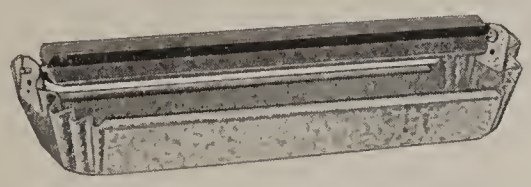
For water, milk, medicine or buttermilk.

Enameled, or charcoal tin. Fits standard pint, quart, or two-quart Mason jars. Without jar, each, 8c.

Glass base fountain made of heavy clear glass moulded with smooth edge. Without jar, each, 10c.

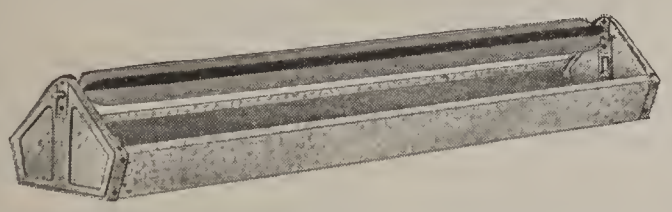


Chick Feeder (Reel Type)

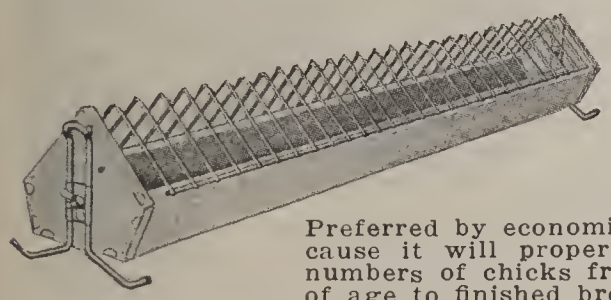


Feed-saving lip curved for chick safety and feed economy.
No. 212—12 inch 15c
No. 224—24 inch 25c
No. 236—36 inch 35c

Chick Feeder (Reel Type)



Improved feeder. Reel adjustable to four positions. Practical for day old to 6 weeks old chicks.
No. 624—24 inch 35c
No. 636—36 inch 45c
No. 6360—36 inch same as No. 636 excepting furnished with adjustable wire legs.....55c



Broiler and Poult Feeder

Preferred by economical buyers because it will properly serve large numbers of chicks from two weeks of age to finished broilers.

No. 730—30 inch $1.00
No. 748—48 inch 1.35

HUDSON FLOCK-FEEDER

New hinged grill feeder of larger capacity and heavier construction than found elsewhere at its low price. Trough 9 inches wide, 4½ inches deep, 5 feet long. All edges folded. Feed-saving lip. Capacity 40 pounds, 36 quarts. Will serve from 30 to 60 hens. Heavy angle steel legs. Fitted with special rounded redwood perches, mite-proof, placed 16½ inches from the floor. Complete. Each $3.45

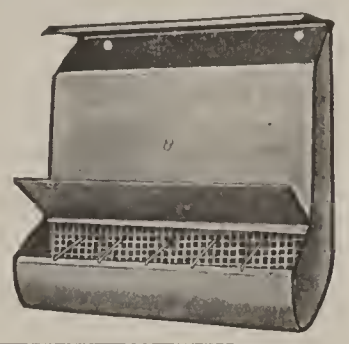
Window-Tex (Glass Cloth)

Genuine patented waterproof cloth through which ultra-violet rays pass, for covering poultry house windows, screen doors, barn windows, hotbeds, etc. Window-Tex lets in the health-building ultra-violet rays and withstands all kinds of weather. Will last for years. 10 sq. yards, $2.50, postpaid.

Dry Mash Hopper

Gives you a feeder that prevents any possibility of waste. Never gets clogged up, yet it can feed coarse as well as fine mash. Has lid that will keep the rats and mice out at night.

No. 35—8½ inches wide.....$1.25
Shipping weight 7 lbs.
No. 36—12 inches wide..... 1.60
Shipping weight 9 lbs.
No. 37—24 inches wide..... 2.35



Handy-Fill Chick Fountain

Handy-Fill Chick Fountain with exceptional water capacity at an attractive price. Reversible bail for easy filling and cleaning. Drinking pan of special Hudson design. One-piece, rolled edge trough especially designed for small chicks, of no-spill design.

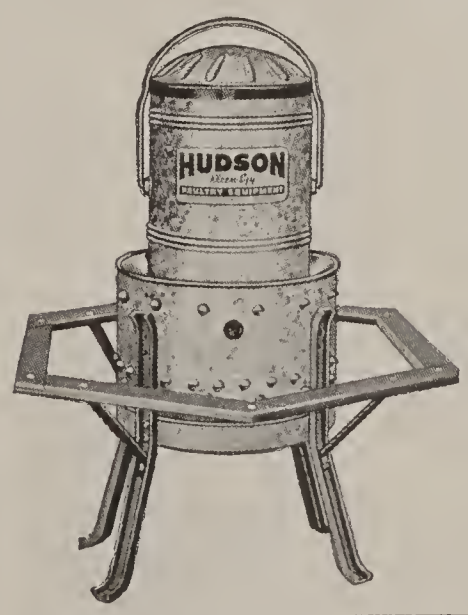
No. C2, 2 gal.....Each $1.10
No. C3—3 gal.....Each 1.25

Chick and Broiler Fountain

A fountain that is easily cleaned, cone top preventing roosting. Equipped with self-closing valve. New design of "wade-proof" trough prevents waste and moisture accumulation.

K-2—2 gal. $1.35
K-3—3 gal. 1.60
K-5—5 gal. 2.50
K-5H—5 gal. with heater 3.95

Broiler and Flock Fountain



Double, wall type, top fill. "Bail" handle provides a practical pail for filling.

No. D2—Fountain only. 2 gal. $1.35
No. D3—Fountain only. 3 gal. 1.95
No. D5—Fountain only. 5 gal. 3.00
No. D5H—Complete with heater 4.65
Stand and legs for 5 gal. size, $2.50.

Hudson Grit and Shell Hopper

For the feeding of grit, ground shells and charcoal.

No. GB9—2 compartment. Width 9 inches $1.25
No. GB12—3 compartment. Width 12 inches $1.45

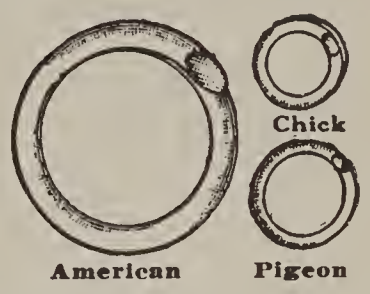
Beise Fountains

Are one of the most popular makes that we sell, being favored by poultry raisers on account of the ease in which they can be filled, and serviceable make-up.

2-gallon size .....$0.80 | 3-gallon size $0.90
4-gallon size 1.00

LEG BANDS (In Any Size)

Please Note. When ordering be sure to state the color desired, also for what breed of birds wanted to avoid a mistake in the size. Include postage for parcel post charges.



Spiral Leg Bands

The spiral bands we offer are made of highest quality celluloid. Colors are: White, Blue, Green, Yellow, Red, Pink, Light Blue, Cerise, Purple, and Black.

Size	doz.	25	100	1000
Chick, Pigeon, Bantam	$0.10	$1.15	$0.50	$ 3.00
Mediterranean, American	.10	.20	.60	4.35
No. 12 Asiatic	.15	.25	.70	5.50
No. 13 Asiatic	.15	.25	.85	6.50
No. 14 Turkey	.20	.35	1.00	7.50
No. 16 Turkey	.25	.45	1.40	10.00

Economy Colored Poultry and Pigeon Band

The Best Band for Exhibition Purposes

Colors: Red, Blue, Pink, White, Yellow, Green, Purple. Sizes 4 and 5 for Pigeons; 5, 10c; 10, 20c; 25, 40c; 50, 65c; 100, $1.25. Size 9 for Mediterranean; size 11 for American breeds; size 12 and 13 for Asiatic; size 14 and 16 for Turkeys; 5, 15c; 10, 25c; 25, 60c; 50, $1.10; 100, $2.00.

Farmer's Friend Egg Carrier

Is one of the most popular and convenient carriers made for shipping eggs by Parcel Post or Express. Its solid wood walls protect eggs against breakage even in rough handling. Is light in weight, yet very durable.

Size	Each	Size	Each
6 doz. (Wt. 5 lbs.)	$0.80	15 doz. (Wt. 9 lbs.	$1.10
12 doz. (Wt. 8 lbs.)	1.00		

Continental Folding Egg Carton

Is the cheapest carton on the markct yet its cushion-like construction makes it very safe for the protection of eggs against breaking.

1 doz. (weighs 3 lbs.)	$0.30	250 in carton	$4.25
100 (weighs 22 lbs.)	2.00	1,000	16.00

3x4 Egg Cartons

A square shaped, two-piece egg carton.

1 doz.	$0.15	250	$2.00
2 doz.	.25	500	4.00
5 doz.	.60	1000	7.50
125	1.10		

Wooden Shoes

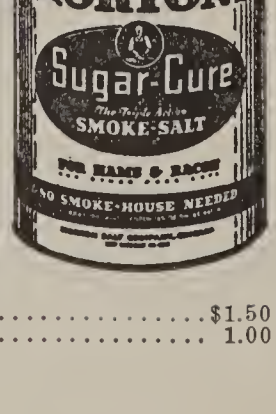
Direct from Holland—genuine wooden shoes for stage use, pageants or the farm. Children and adult sizes. $1.00 to $1.75 a pair.

Salt

Table, per 100 lbs.	$1.25
Ice Cream, per 100 lbs.	1.10
Sidewalk, per 100 lbs.	1.10
Stock, per 100 lbs.	.95
Water Softener, 100 lbs.	1.25
Iodized, 50-lb block	.85

Morton's Smoke Salt

Morton's Smoke Salt does the entire job of salting, sugar-curing and putting the appetizing flavor of wood smoke into your hams and bacon. It does all three at the same time—salt, sugar-cure and smoke. 2 lbs., 25c; 10 lbs., $1.00.



Morton's Tender-Quick

A special meat cure for beef, veal, mutton, lamb, fish, fowl, pork specials, wild game, etc. Cures faster—improves flavor—makes meat more tender, 2½ lbs., 50c.

Morton's Seasoning

That extra something that makes good cooking taste better. 3 ozs., 10c; 10 ozs., 25c.

Morton's Meat Pump	$1.50
Morton's Meat Thermometer	1.00

BIRD SEED

In the quality and kind of seed you give your bird depends his health and song, and it is of the greatest importance to get good seed. More birds lose their song from the wrong kind of food or poor seed than from any other cause. Buy good seed and you will continue to have a happy singing bird. The seed we offer is carefully selected and of the highest quality. We shall be pleased to quote you in larger amounts than those we have listed.

Bird Seed	1 lb.	5 lbs.	10 lbs.
Canary Bird, Gould's Mixture	$0.15	$0.60	$1.15
Love Bird Mixture	.15	.60	1.15
Canary	.15	.70	1.30
Hemp	.20	.80	1.50
Millet	.10	.35	.70
Rape	.15	.70	1.30
Sunflower	.15	.60	1.15
Lettuce Seed	.75	....	....
Thistle Seed	.40	1.50	2.75
Poppy Seed	.25	1.00	1.75
Bird Gravel (bulk)	.05	.25	.40
Cuttle Bone (small size)	Oz. 10c;	¼ lb.	35c

We also have canary feed, drinking and treat cups, bird baths, and canary leg bands.

Bird Remedies and Feeds—Fish Food

Bird Bitters	25c	Lice Powder	25c
Bird Nesting	10c	Mite Powder	25c
Bird Tonic	25c	Moulting Food	25c
Nestling Food	10c	Song Restorer	25c
Health Food	25c	Sore, Scaly Leg Oil	25c
Hemp & Peppers	10c	Fish Food	10c
Catnip, bulk	10c	Aquarium Cement	10c

We carry a complete line of American Brand Bird Products.

RABBIT SUPPLIES

Rabbit Salt Spools. Plain, sulphurized or mineralized. Each, 6c; doz., 60c; postpaid, 75c; 100, $5.00.
Rabbit Feeders (stoneware) ..... 20c and 25c each
Rabbit Waterers (stoneware) ..... 20c and 25c each

SERGEANT'S DOG MEDICINES

We carry a complete line of the famous Sergeant's Dog Medicines. Ask for free Dog book.

Purina Dog Chow

Purina Dog Chow is a complete food made of dried meat, dried milk, wheat germ, barley malt, Cod Liver Oil and other health building ingredients. Dogs love it. It's good for them. To suit your dog's taste, Dog Chow comes in two forms, listed below. Feed either one or both for variety.

Dog Chow Checkers

Little nuggets of food pressed together. Dogs love to chew them. It satisfies their natural desire to gnaw.

100 lbs.	$7.50
25 lbs.	2.25
5 lbs.	.50

Dog Chow Meal

Complete food in granular form. Simply stir in warm water, milk, soup, etc., and serve.

100 lbs.	$6.25
25 lbs.	1.75
5 lbs.	.50

Fleischmann's Irradiated Dry Yeast

Helps to keep your dog in wonderful condition, to eliminate skin trouble and intestinal disorders and to give your dog a finer, glossier coat. Just add a teaspoonful to his daily diet. 3½ oz., 25c; 8-oz. can, 50c; 1 lb., 85c.

Dry Measures

Made of metal and painted, in 1-qt., 2-qt., 4-qt., 8-qt. and 16-qt. sizes.

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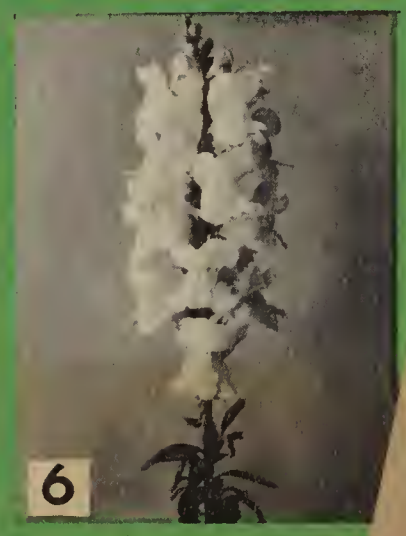

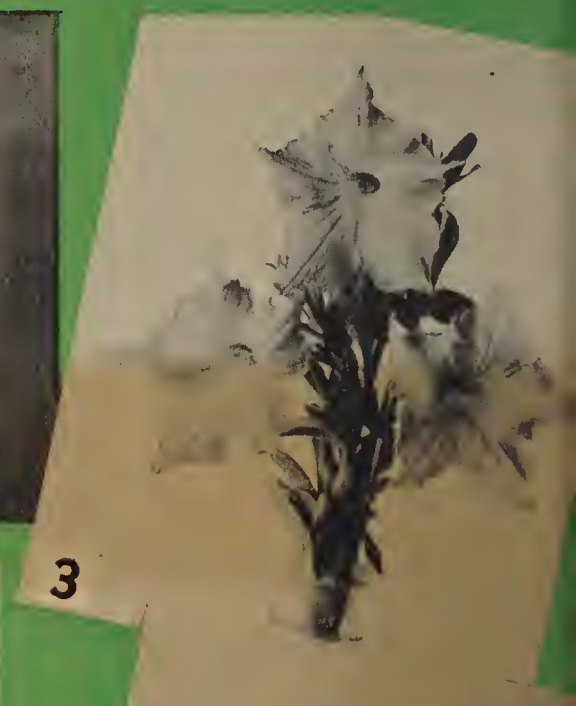

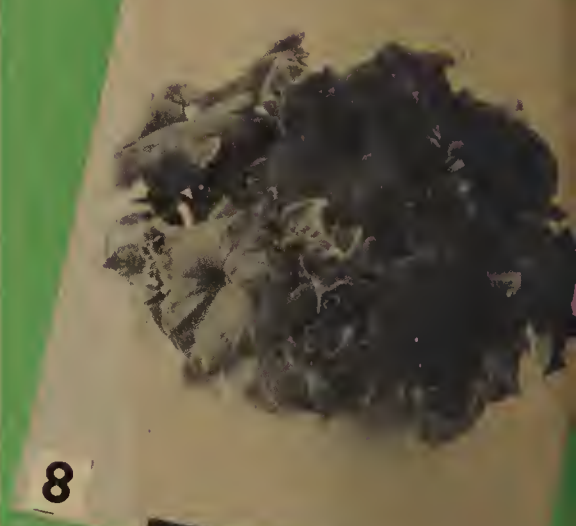

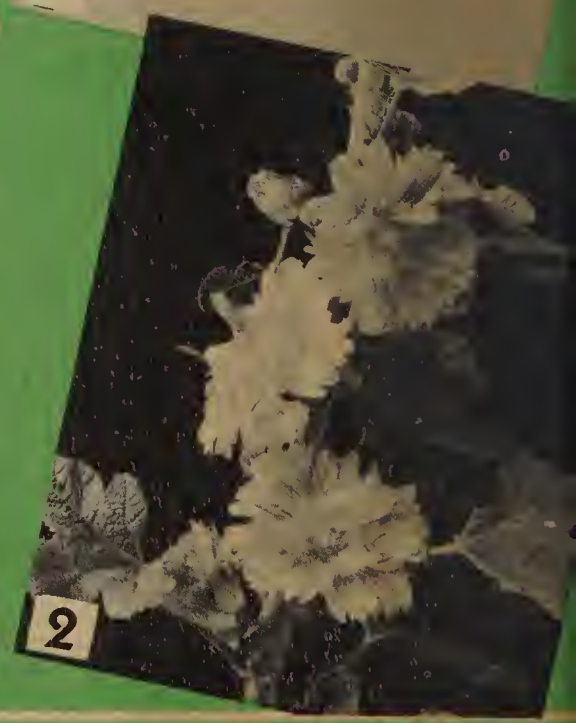

See inside flower pages for full description of the following new flower varieties listed on this page. 1939 All-America winners listed by number in order of selection.

1—Ipomea, Scarlett O'Hara . . . . . Pkt. 35c
1939 Gold Medal All-America Winner

2—Hollyhoek, Annual, Indian Spring Pkt. 25c
Second Choice All-America for 1939

3—Petunia, Hollywood Star . . . . . Pkt. 35c

4—Phlox, Drummondi, Gigantea, Salmon Glory . . . . . Pkt. 25c

5—Aster, Early Giant, light blue . . Pkt. 25c

6—Antirrhinum Guinea Gold . . . . Pkt. 25c

7—Cynoglossum, Firmament . . . . Pkt. 25c

8—Petunia, Velvet Ball . . . . . Pkt. 25c

9—Verbena, Blue Sentinel . . . . . Pkt. 25c

10—Marigold, Early Sunshine . . . . Pkt. 25c

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